Handbook of Thermodynamic Diagrams



Volume 3

Organic Compounds C₈ to C₂₈

Carl L. Yaws

Handbook of Thermodynamic Diagrams



Volume 3

Organic Compounds C₈ to C₂₈



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Organic Compounds C_8 to C_{28}

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DISCLAIMER

This handbook presents a variety of thermodynamic and physical property data. It is incumbent upon the user to exercise judgment in the use of the data. The author and publisher do not provide any guarantee, express or implied, with regard to the general or specific applicability of the data, the range of errors that may be associated with any of the data, or the appropriateness of using any of the data in any subsequent calculation, design, or decision process. The author and publisher accept no responsibility for damages, if any, suffered by any reader or user of this handbook as a result of decisions made or actions taken on information contained herein.

PREFACE

Thermodynamic property data are important in many engineering applications in the chemical processing and petroleum refining industries. The objective of this book is to provide the engineer with such data. The data are presented in thermodynamic diagrams (graphs) covering a wide range of pressures and temperatures to enable the engineer to quickly determine values at points of interest. The contents of the book are arranged in the following order: graphs, references, and appendixes.

The graphs are arranged by carbon number and chemical formula to provide ease of use. English units are used for the property values. For those involved in SI and metric usage, each graph displays a conversion factor to provide the SI and metric units.

The graphs provide wide coverage for volume and enthalpy as a function of temperature and pressure, including the following:

- · two-phase region for saturated liquid and vapor
- superheated gas region for gases above saturation temperature
- subcooled liquid region for liquids below saturation temperature
- supercritical region for temperatures and pressures above critical point

The graphs for enthalpy also contain lines of constant entropy to permit engineering usage for 2nd law problems such as adiabatic expansion and compression of fluids.

The coverage encompasses a wide range of organic compounds including hydrocarbons, such as alkanes, olefins, acetylenes, and cycloalkanes; oxygenates, such as alcohols, aldehydes, ketones, acids, ethers, glycols, and anhydrides; halogenates, such as chlorinated, brominated, fluorinated, and iodinated compounds; nitrogenates, such as nitriles, amines, cyanates, and amides; sulfur compounds, such as mercaptans, sulfides, and sulfates; silicon compounds, such as silanes and chlorosilanes; and many other chemical types.

The range of coverage for pressure is from 10 to 10,000 psia. Very limited experimental data are available at pressures above 1,000 to 2,000 psia. Thus, values at the higher pressures should be considered rough approximations. Values at lower pressures are more accurate.

The graphs are based on the Peng-Robinson equation of state (1) as improved by Stryjek and Vera (2, 3). The equations for thermodynamic properties using the Peng-Robinson equation of state are given in the appendix for volume, compressibility factor, fugacity coefficient, residual enthalpy, and residual entropy. Critical constants and ideal gas heat capacities for use in the equations are from the data compilations of DIPPR (8) and Yaws (28, 29, 30).

The literature has been carefully searched in construction of the graphs. References for sources used in preparing the work are given in the section following the graphs near the end of the book.

For the graphs, some of the compounds may undergo thermal decomposition (reaction) at the higher temperatures. For such cases of thermal decomposition, the graphs are useful for ascertaining property values of the pure compound which is contained in the reaction mixture. Chemistry handbooks and DIPPR (8) notes may be used for specifics regarding thermal decomposition.

A list of compounds is given near the end of the book to aid the user in quickly locating compounds of interest from knowledge of the chemical formula or name.

An executable computer program, complete with data files, is available for calculation of thermodynamic properties. For information on the program, contact Carl L. Yaws, Ph.D., P. O. Box 10053, Beaumont, Texas 77710, phone/fax (409) 880-8787.

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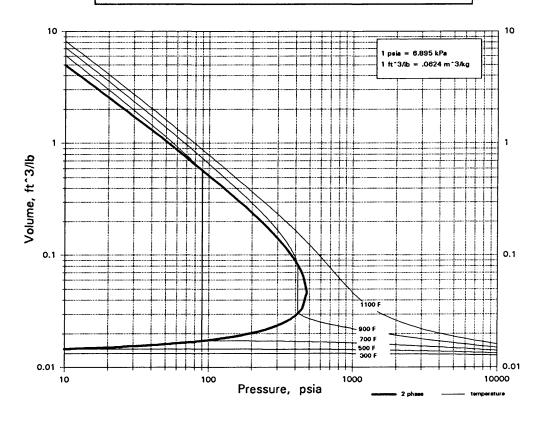


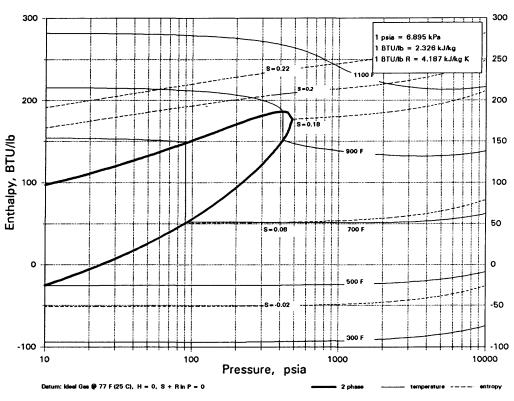
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Organic Compounds C₈ to C₂₈

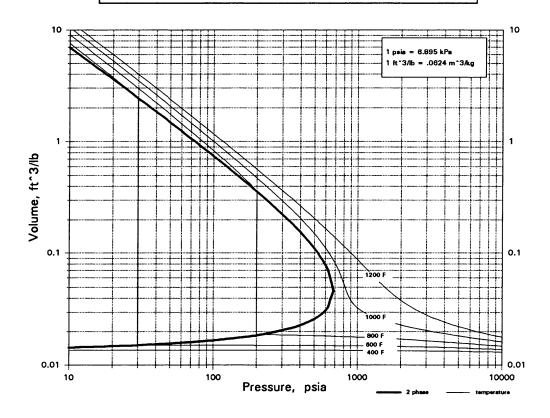


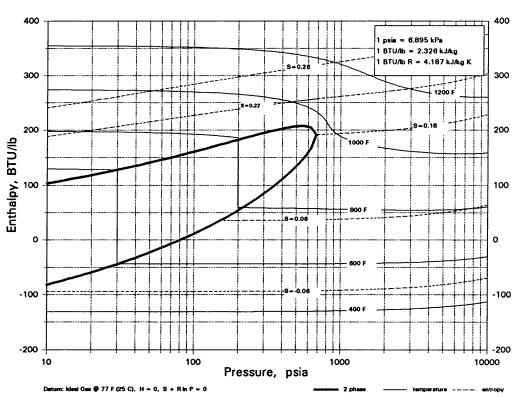
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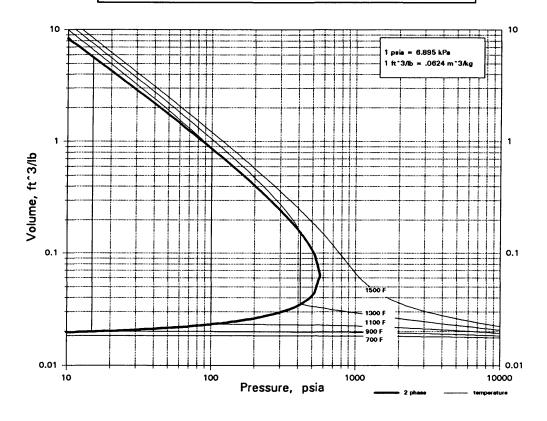


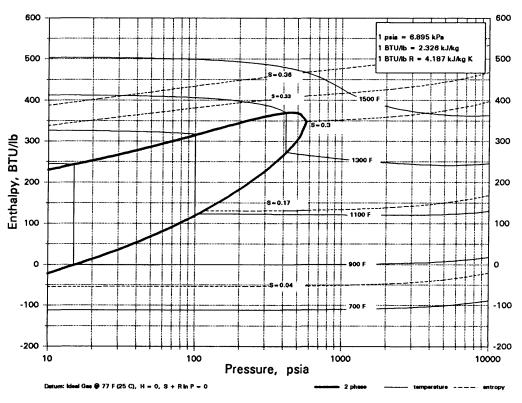




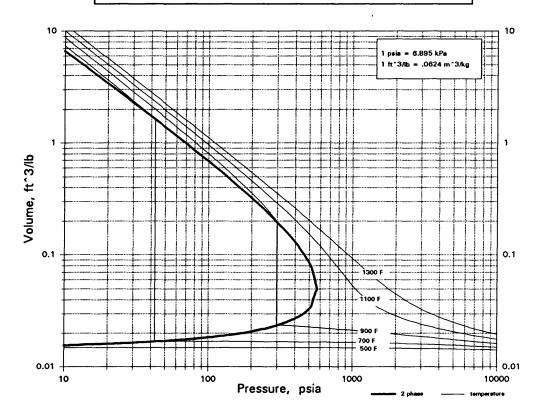


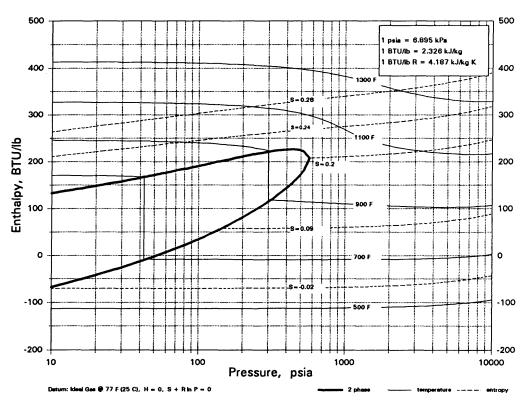




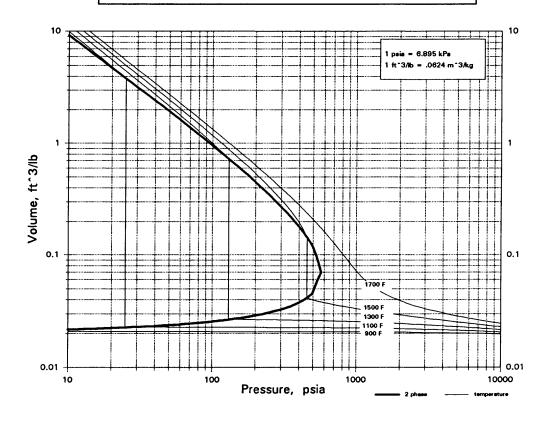


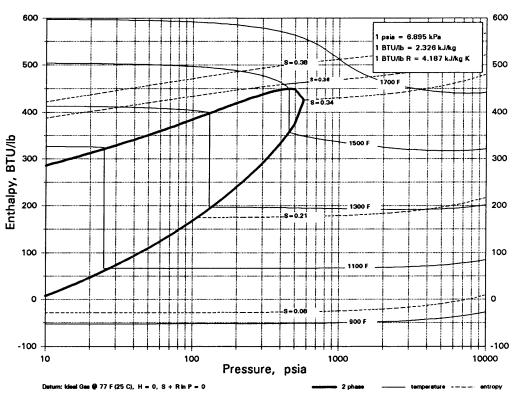




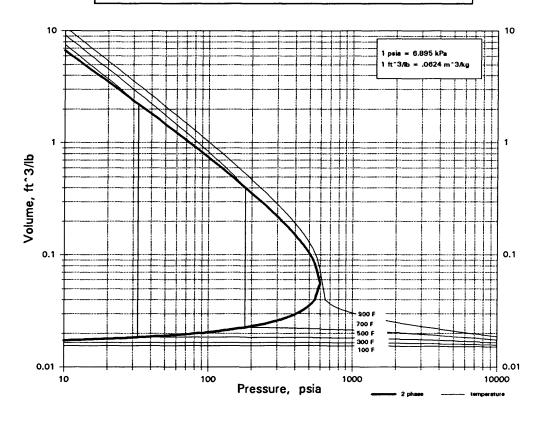


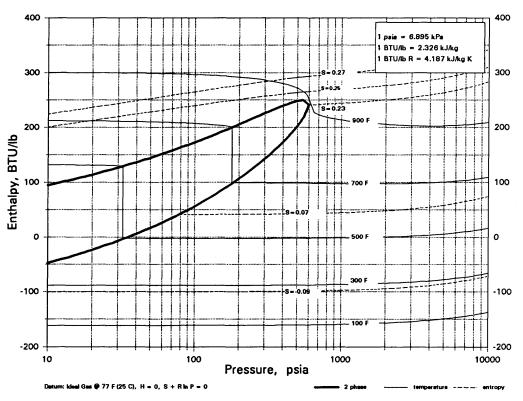




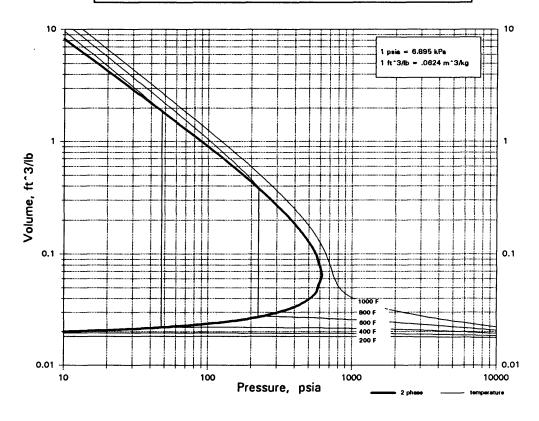


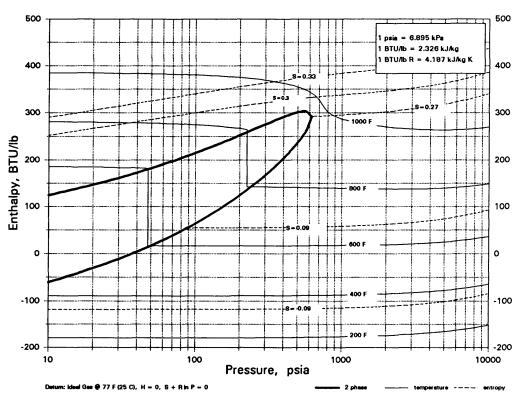


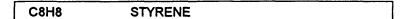


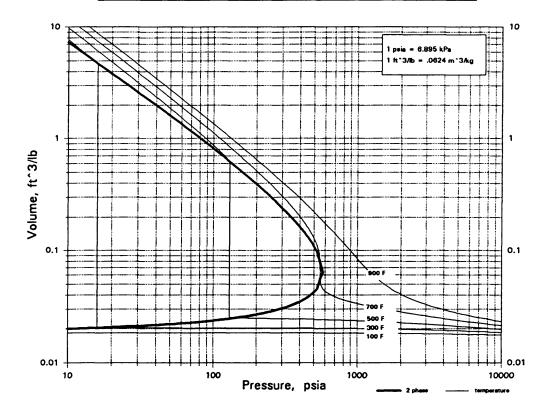


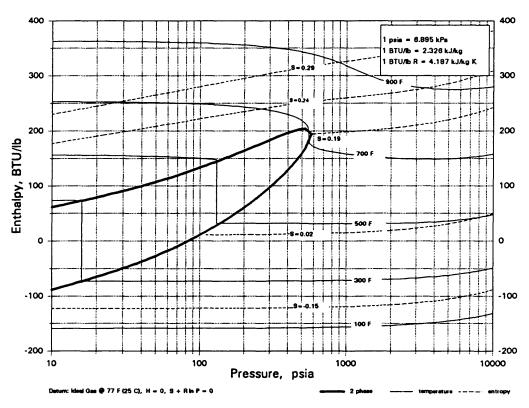




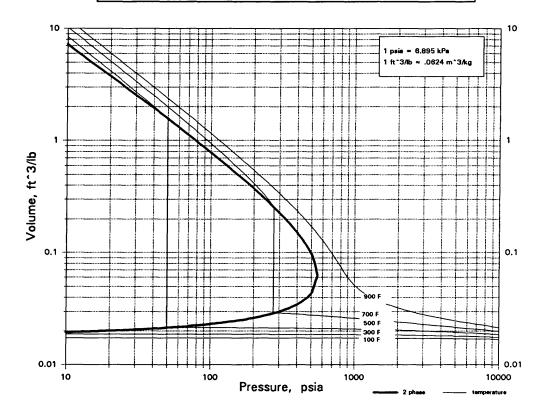


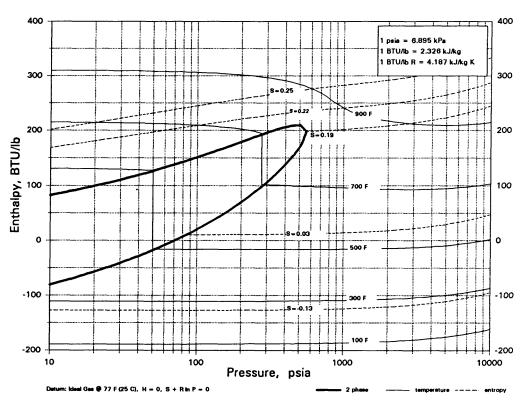




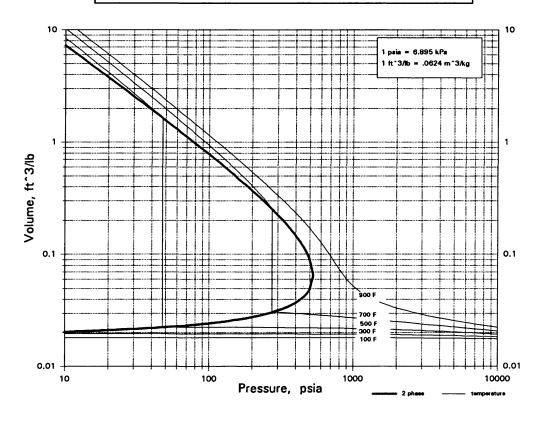


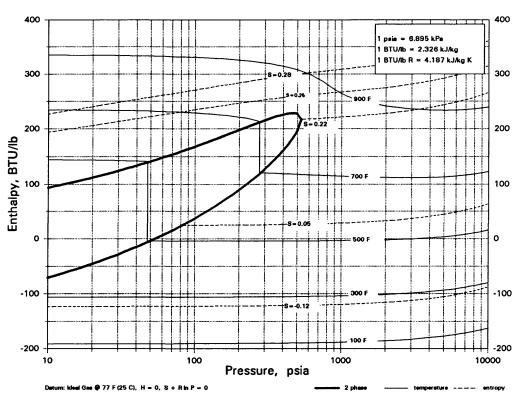




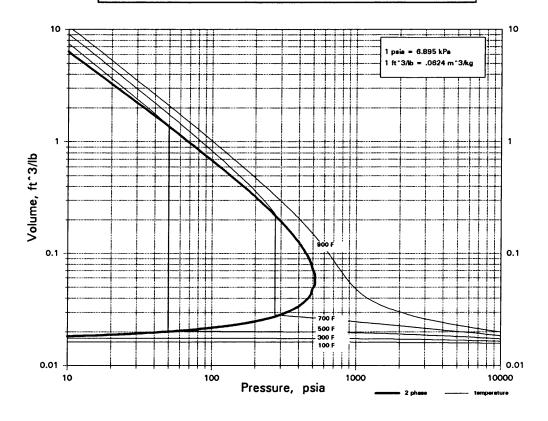


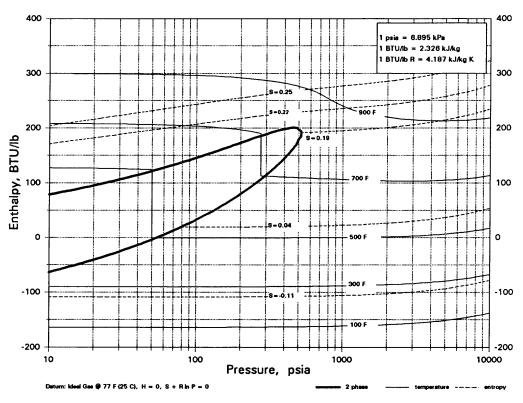




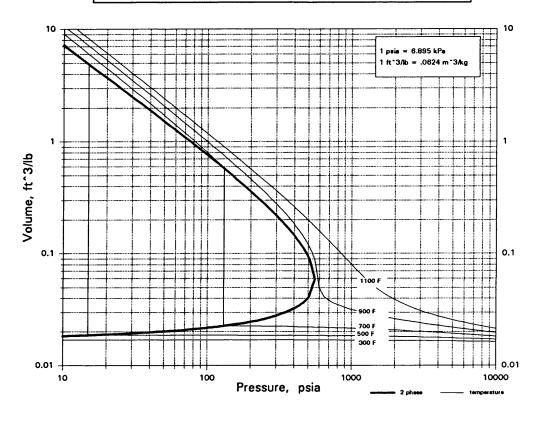


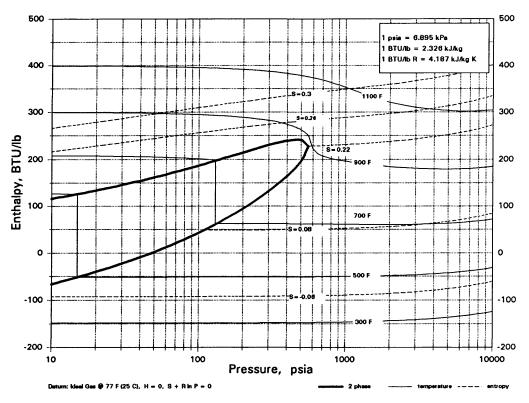




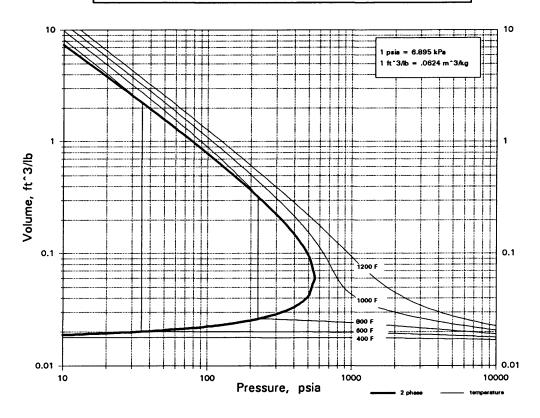


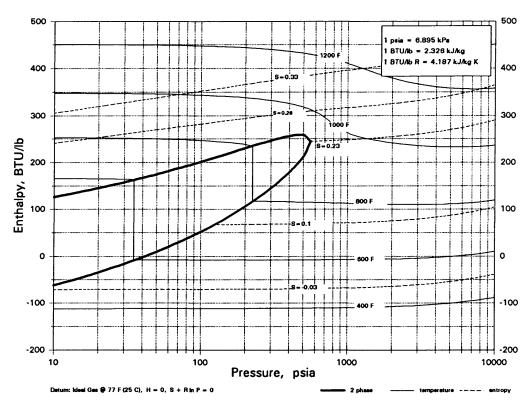




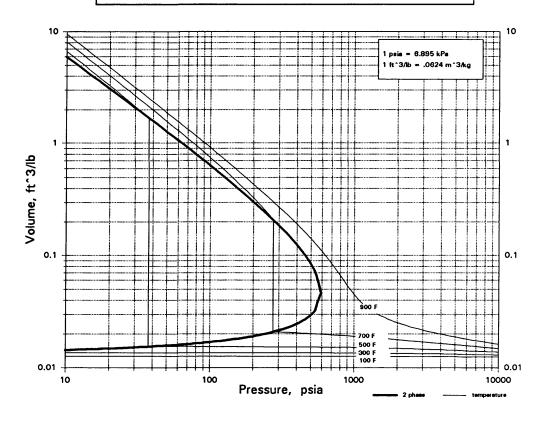


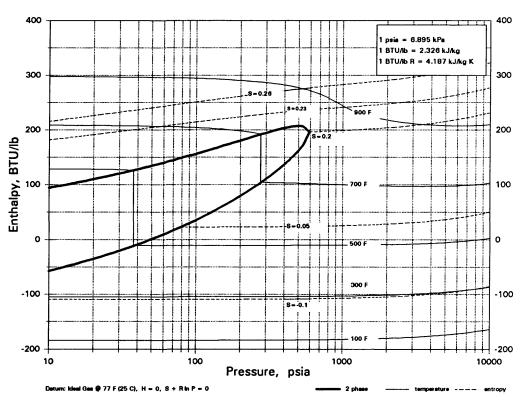




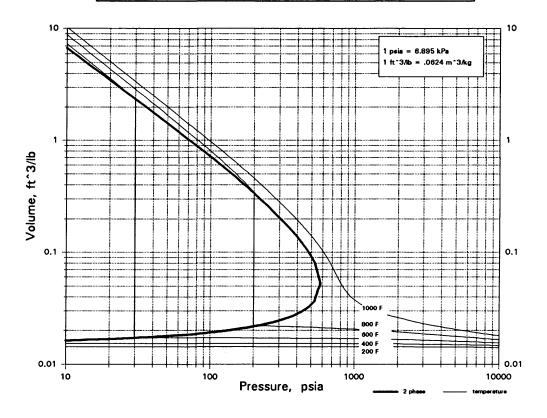


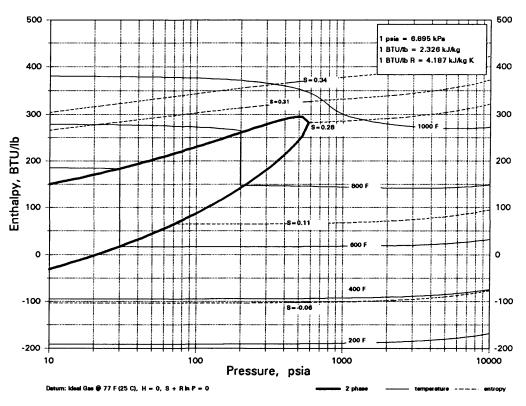




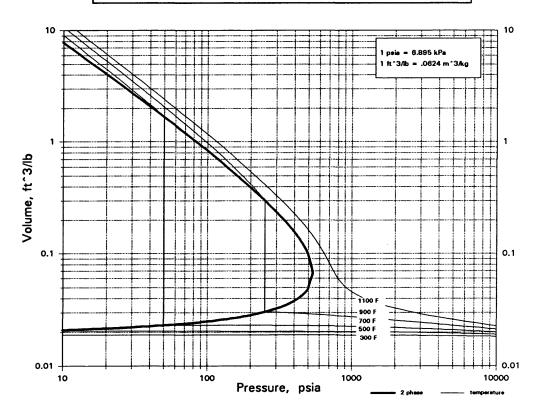


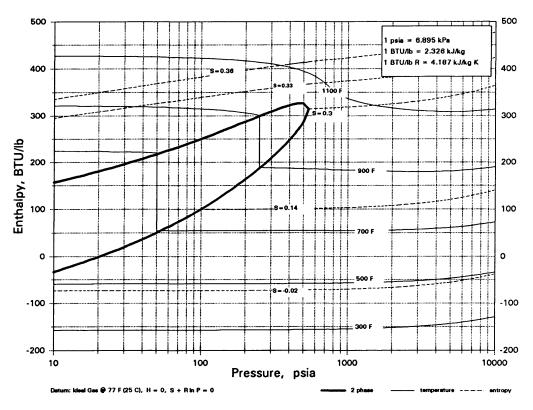




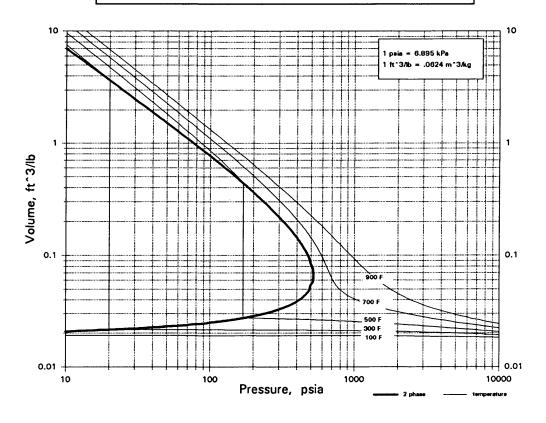


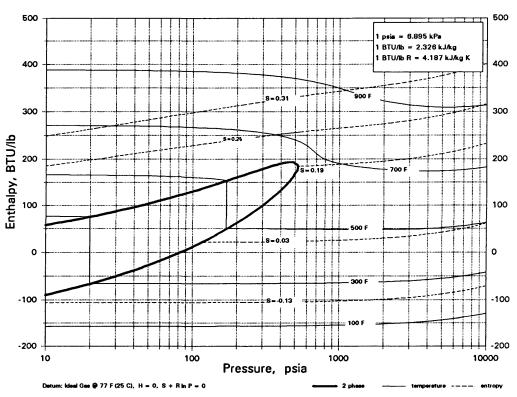


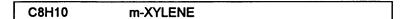


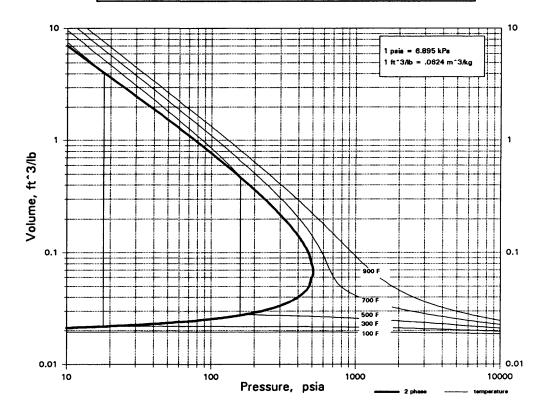


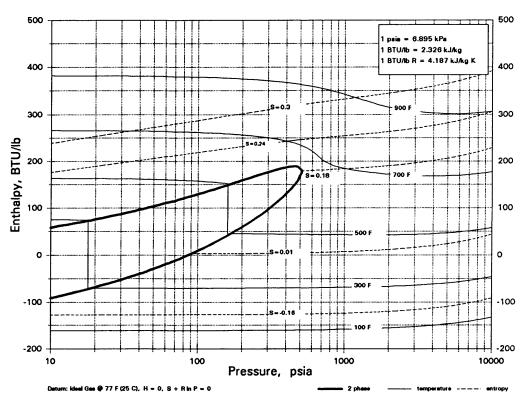




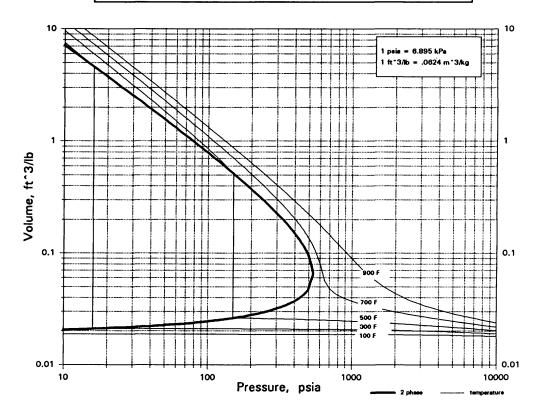


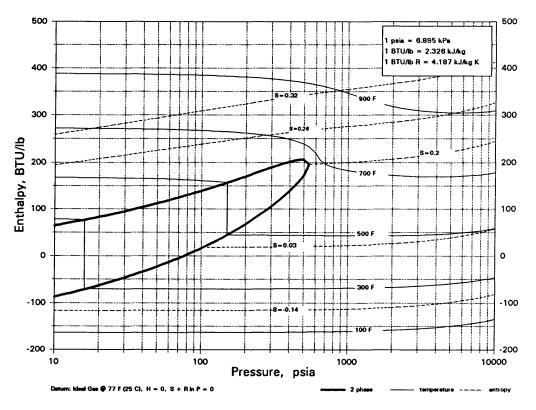




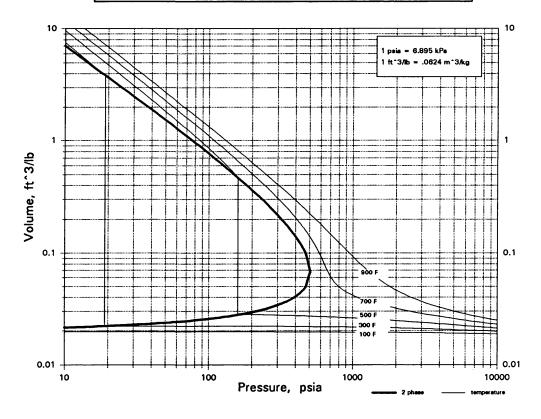


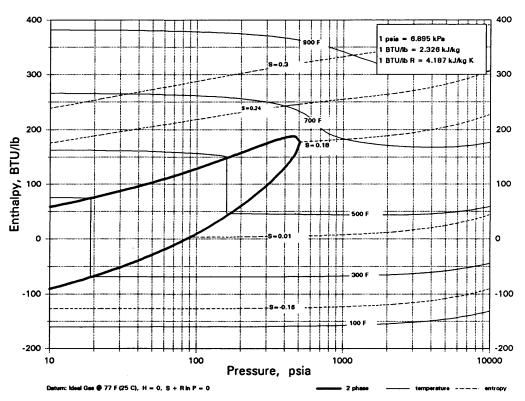




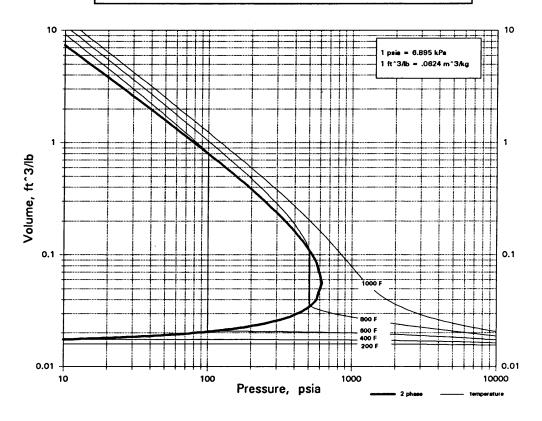


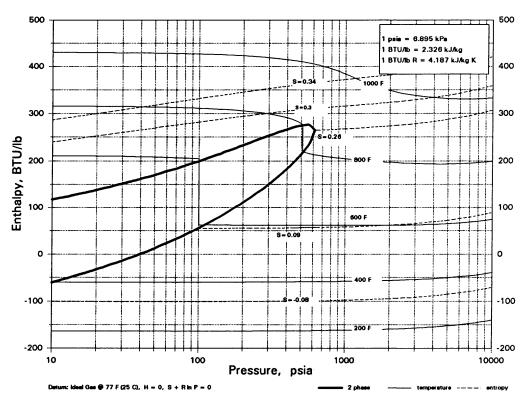




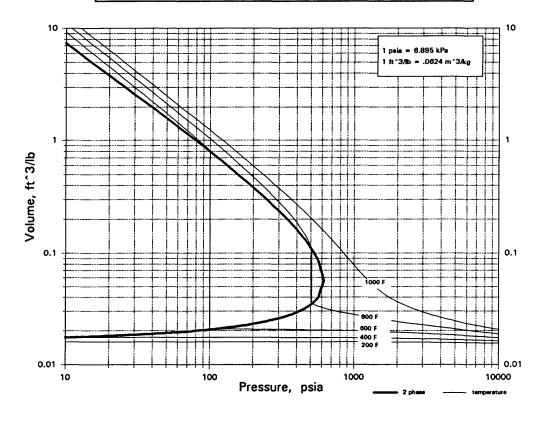


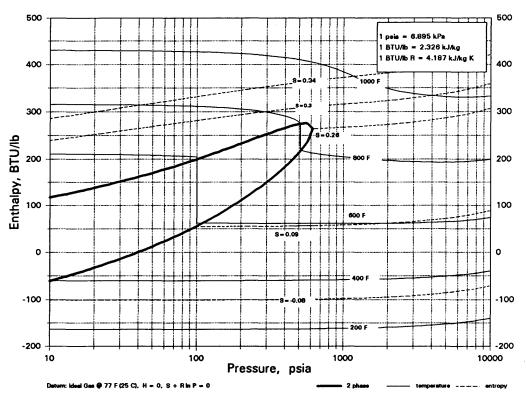




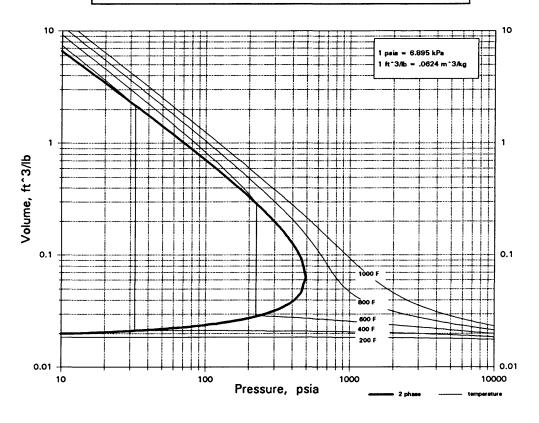


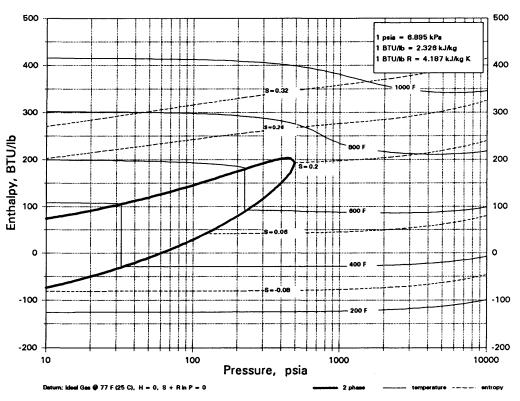




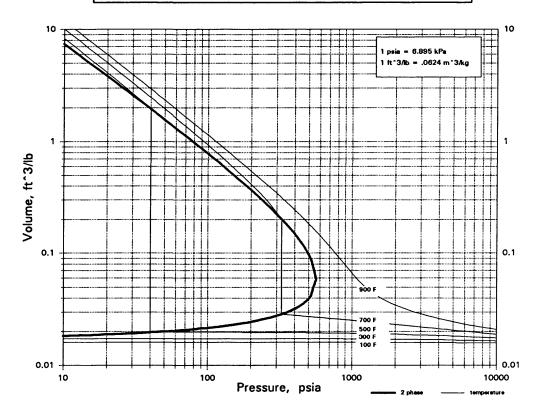


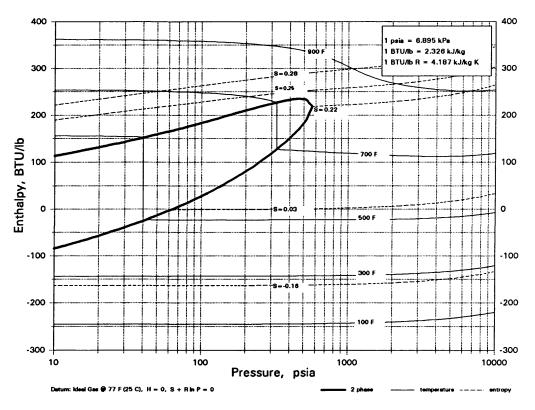




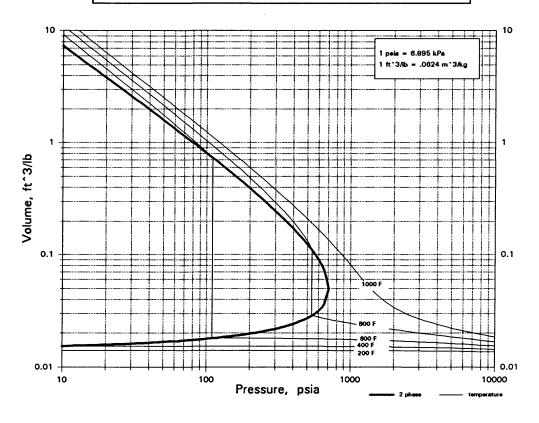


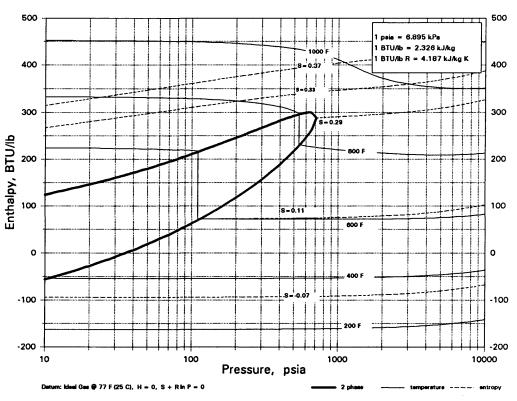




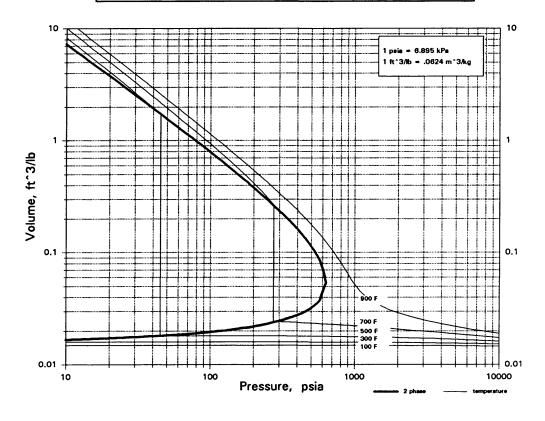


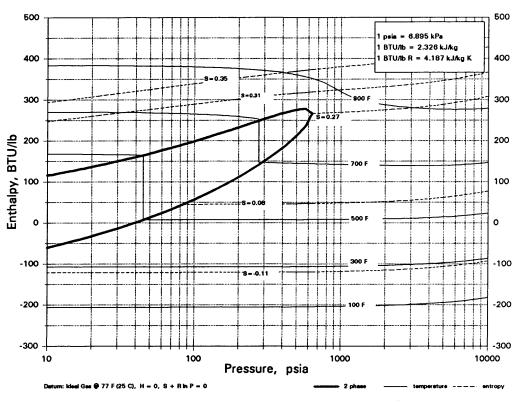




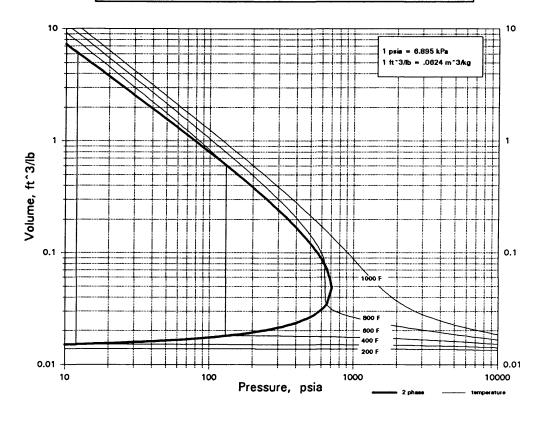


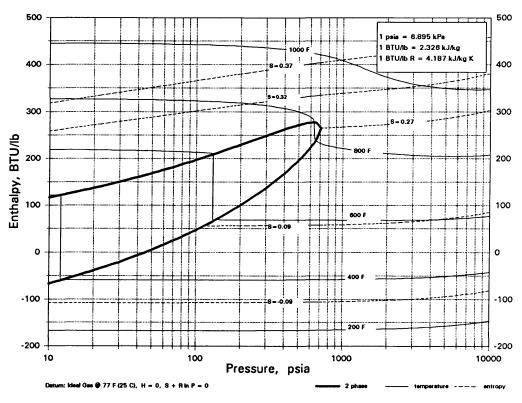




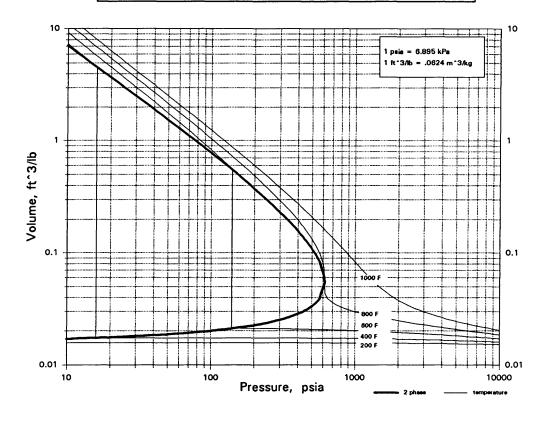


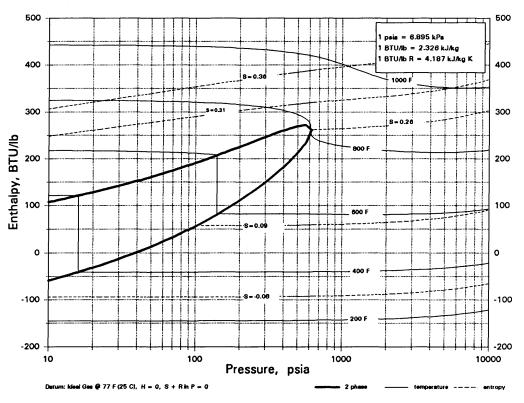




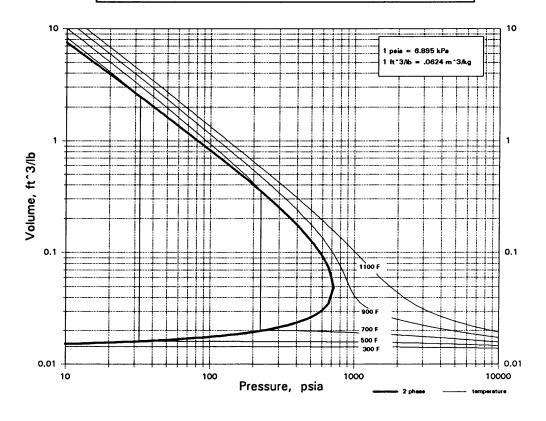


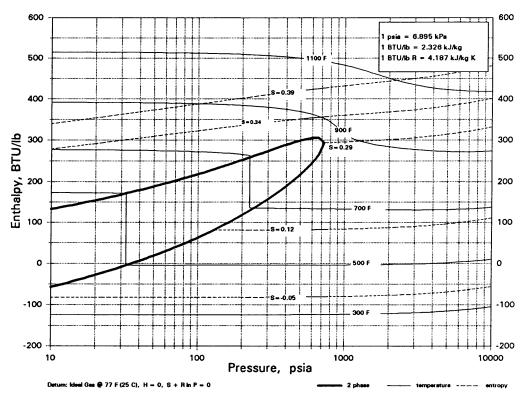


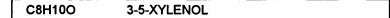


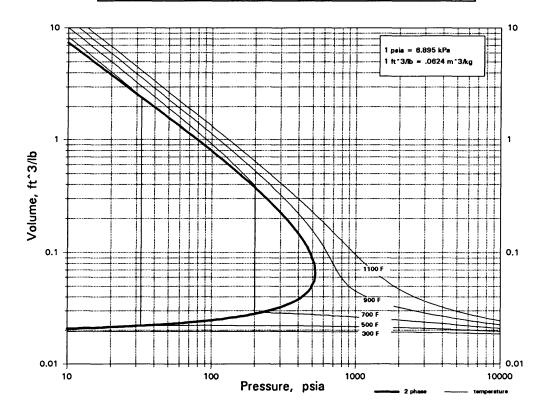


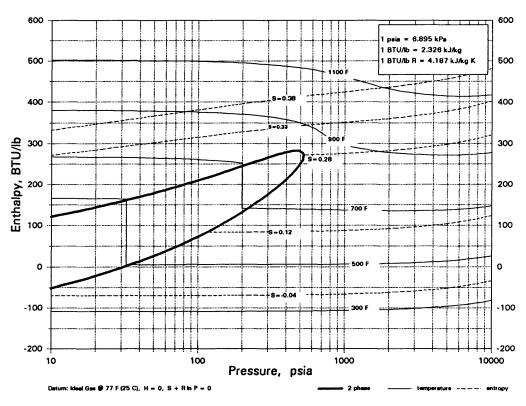




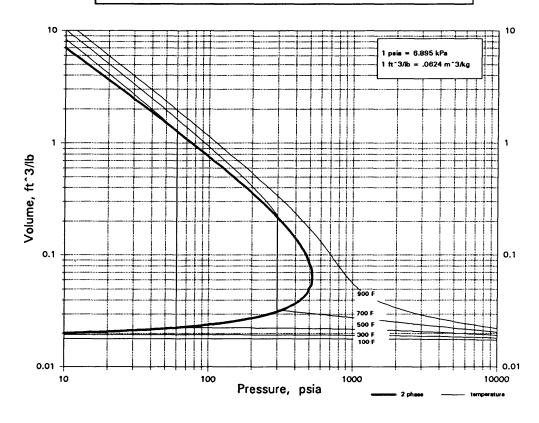


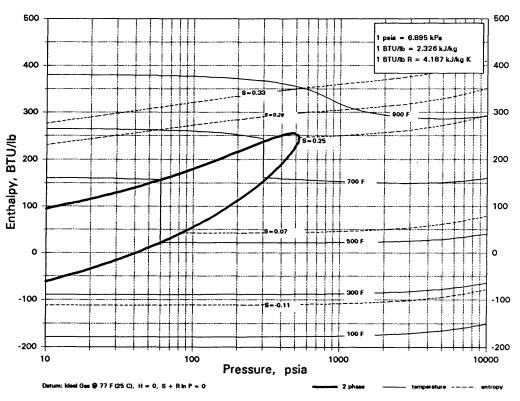




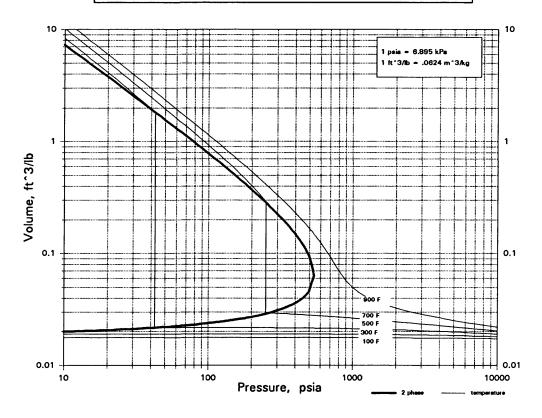


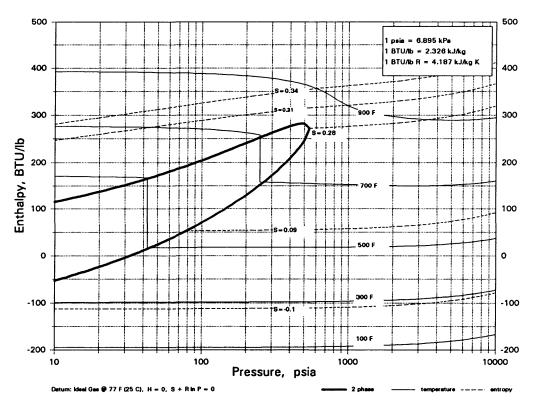




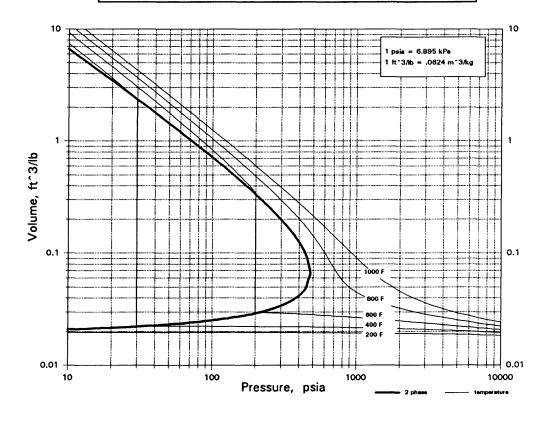


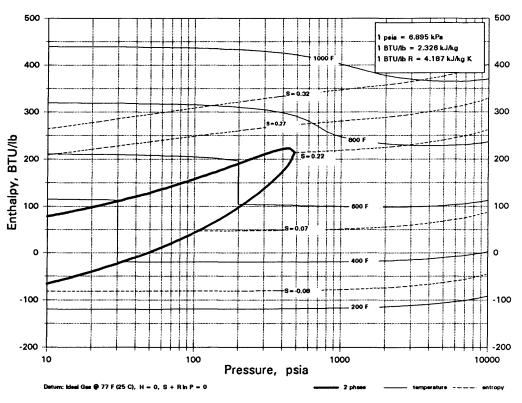




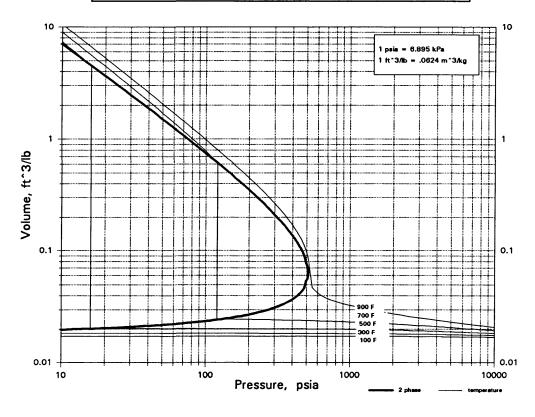


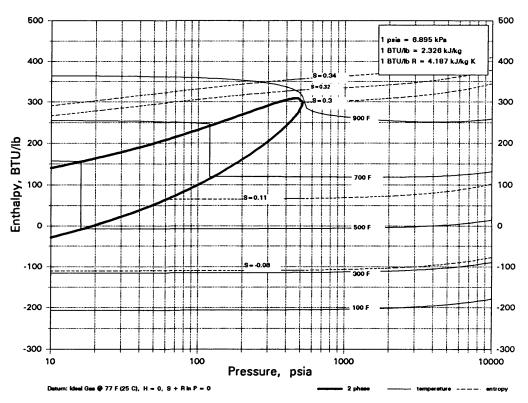




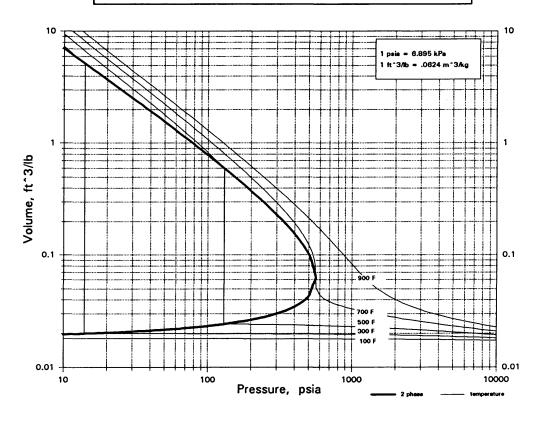


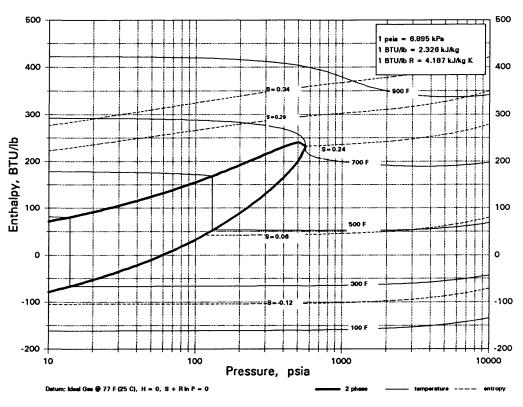




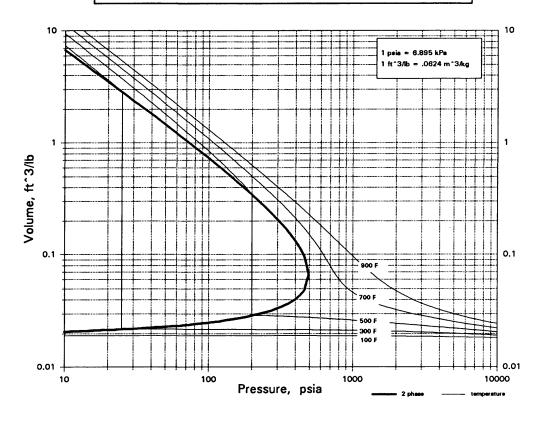


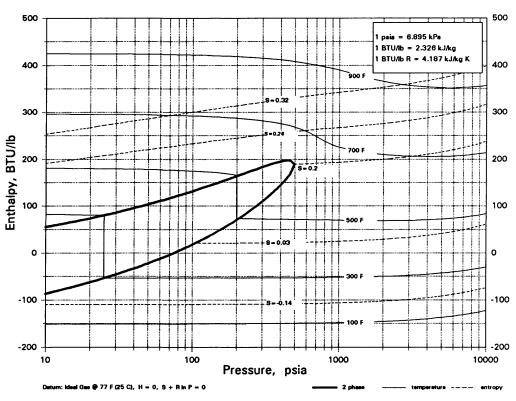




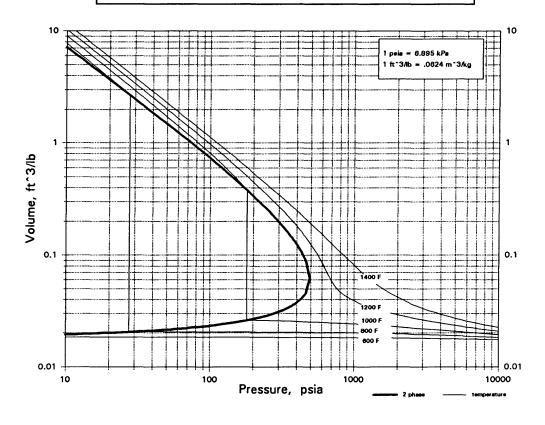


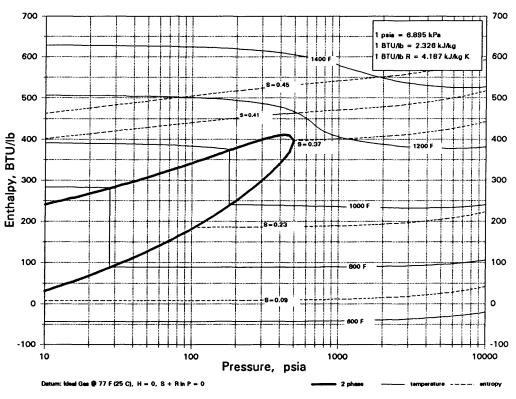




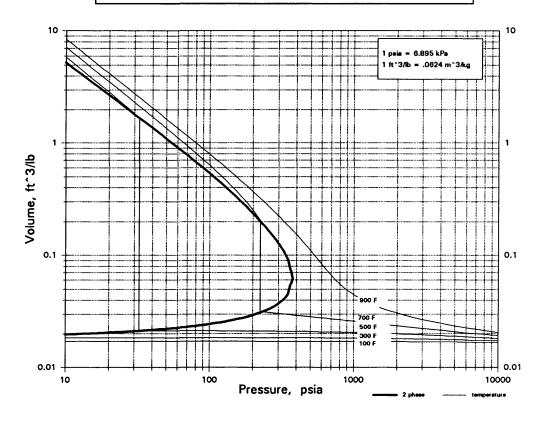


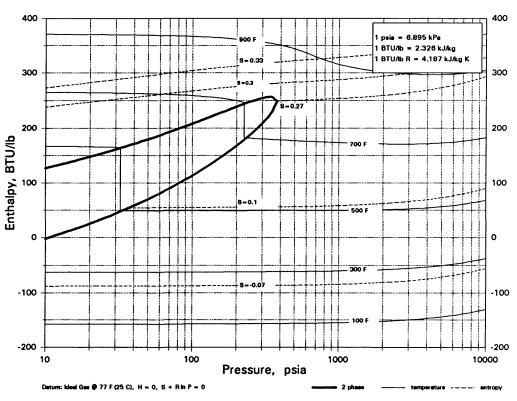
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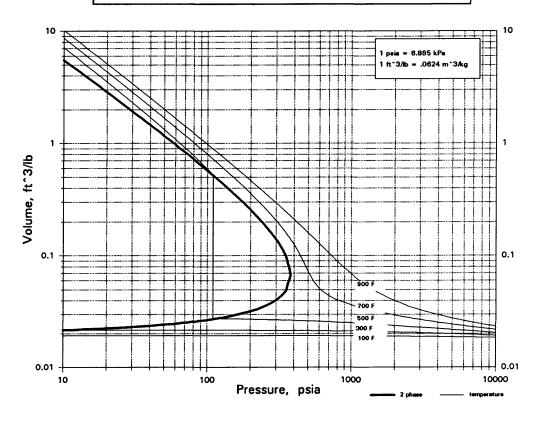


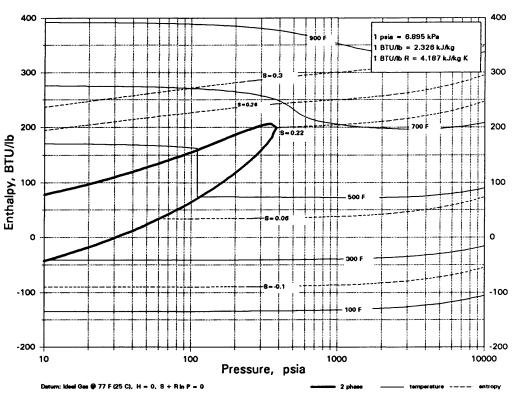




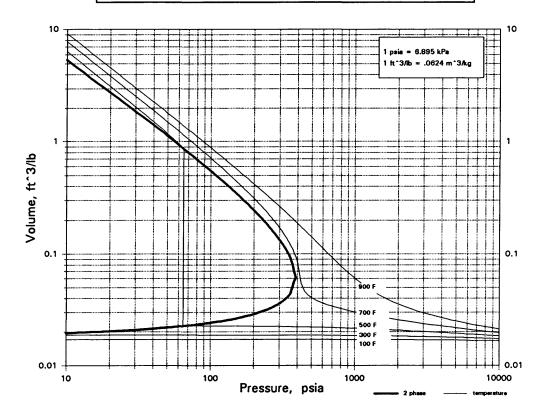


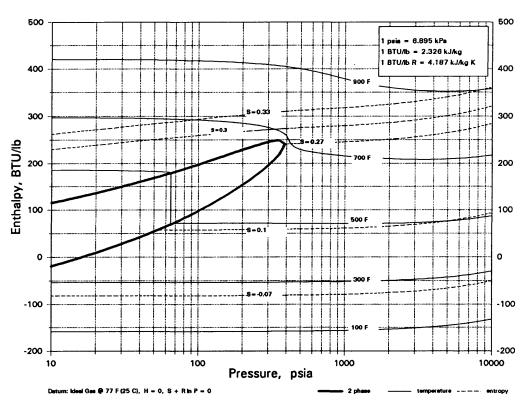




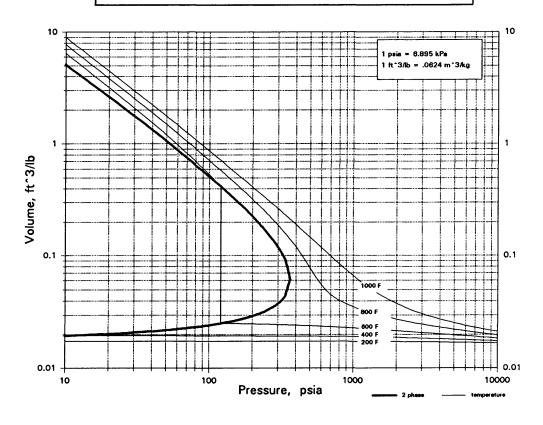


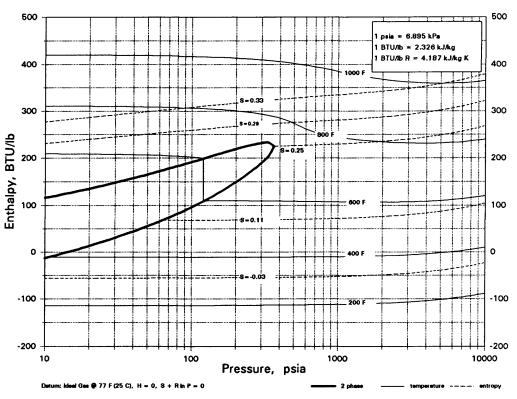




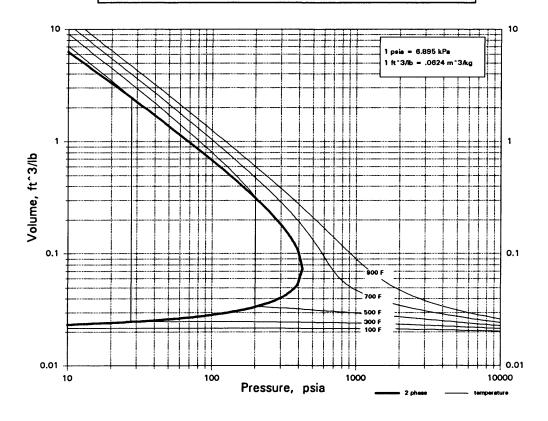


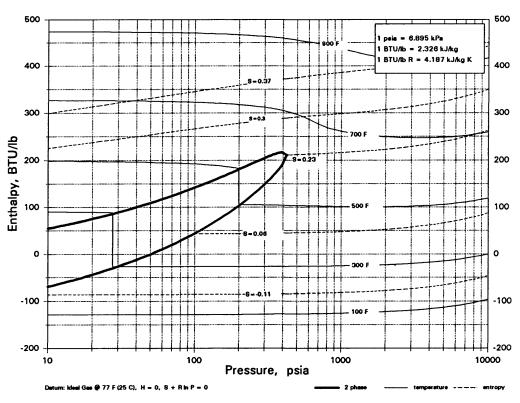
C8H14O4 DIETHYL SUCCINATE



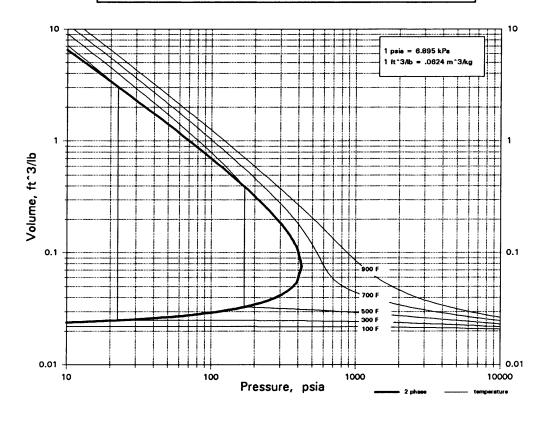


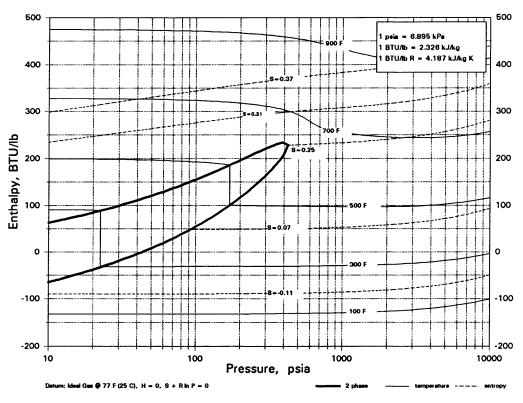




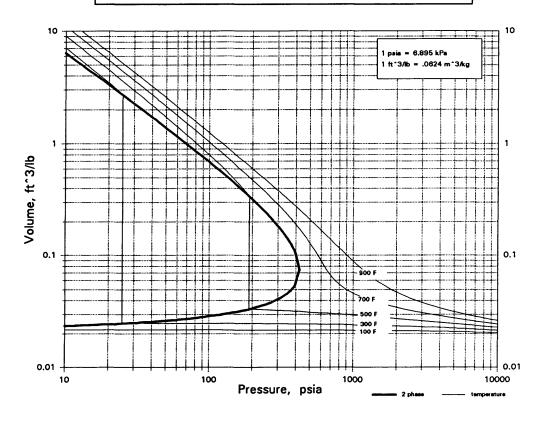


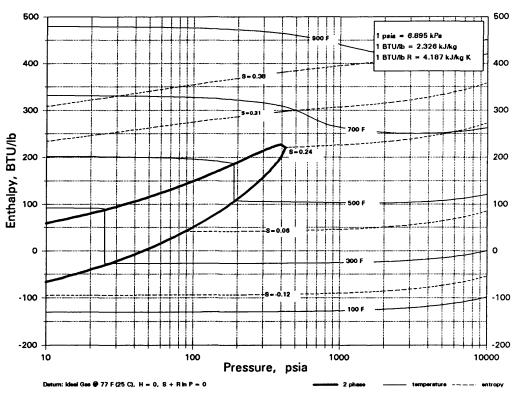




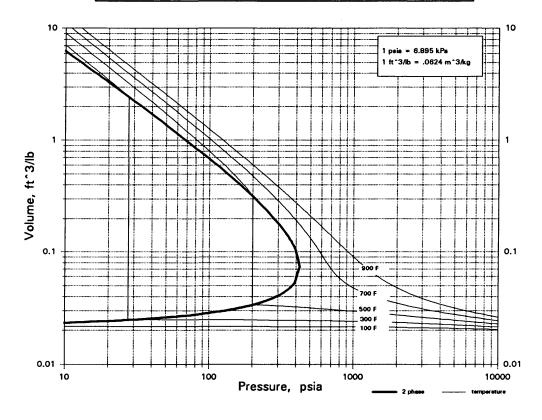


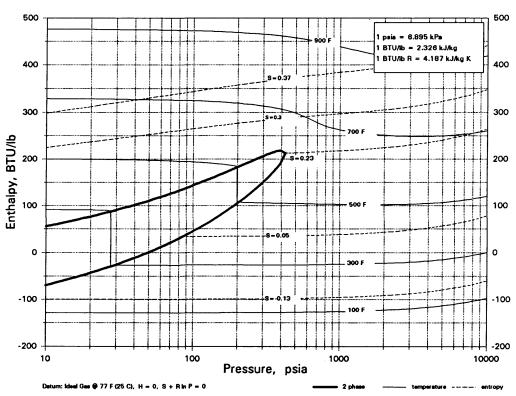




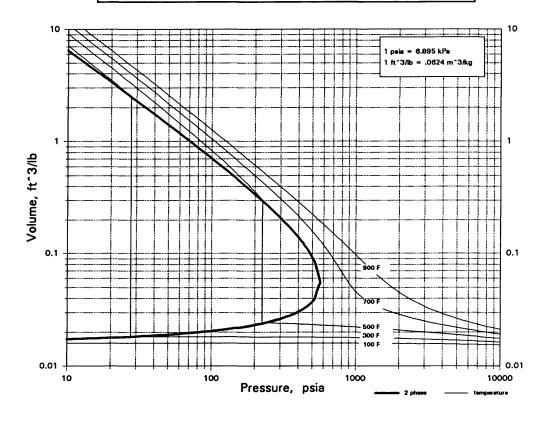


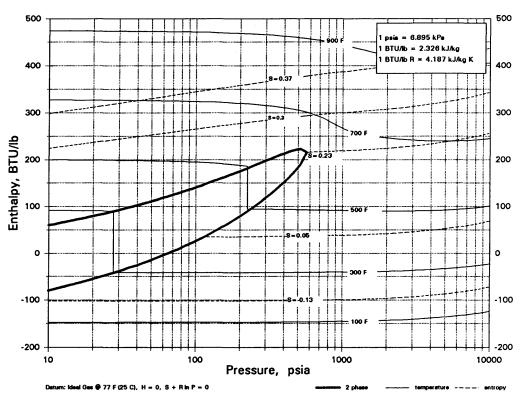




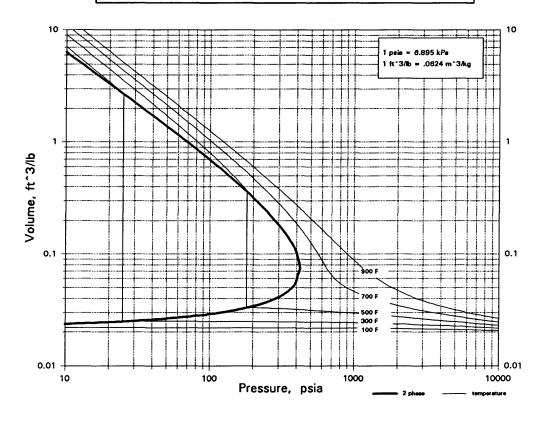


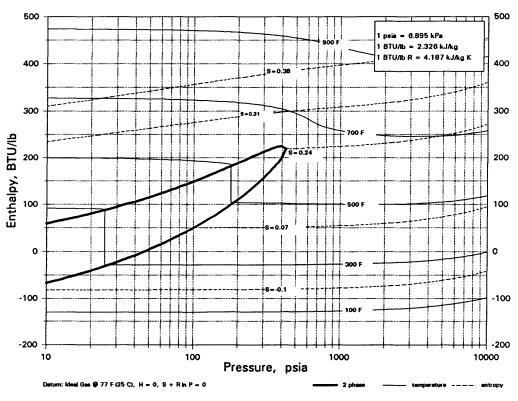




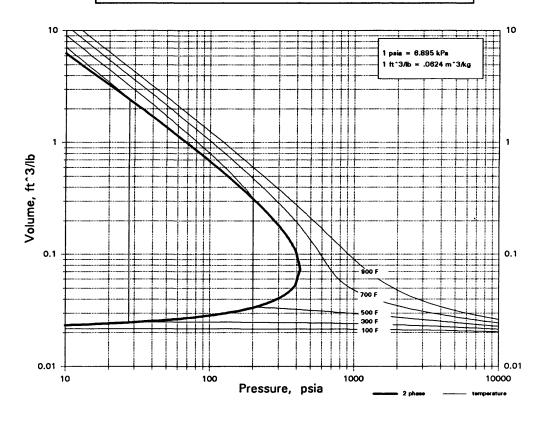


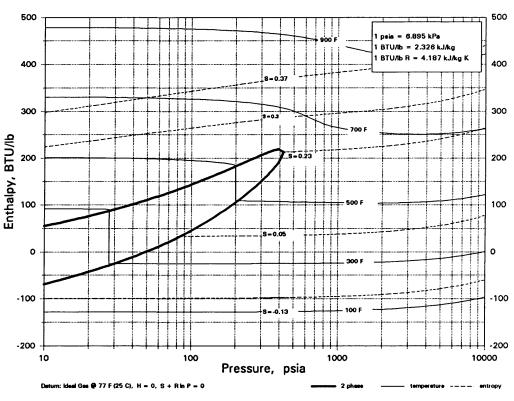




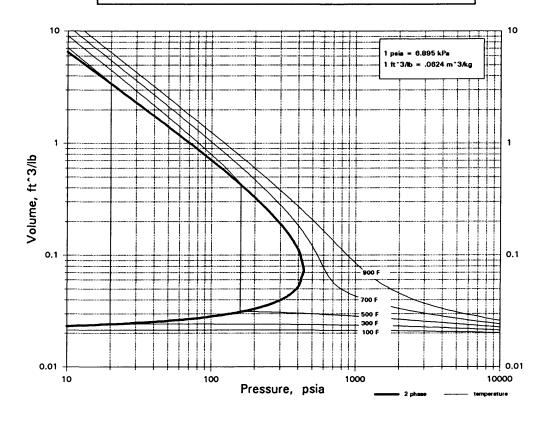


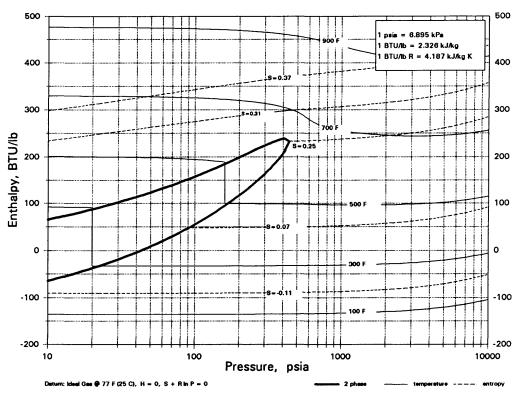


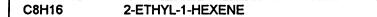


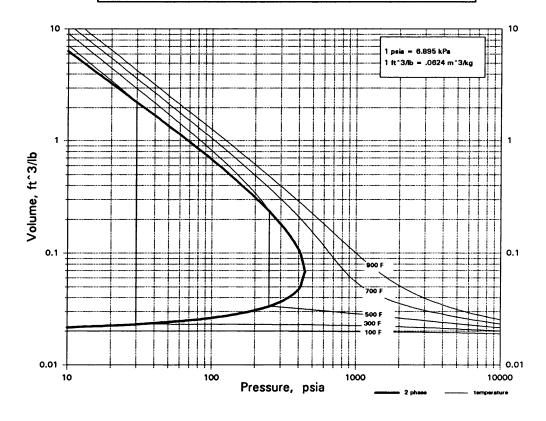


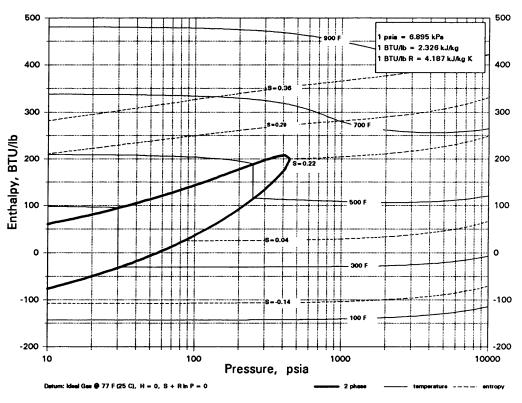


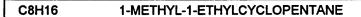


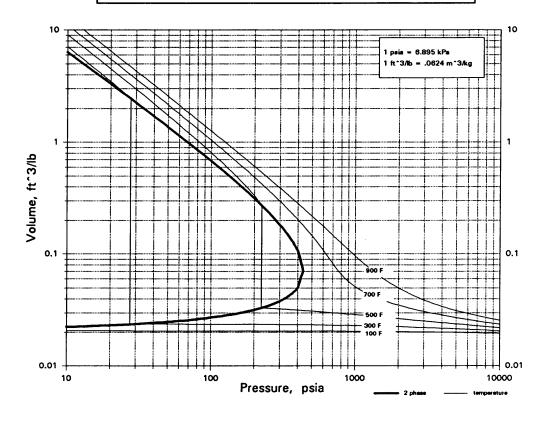


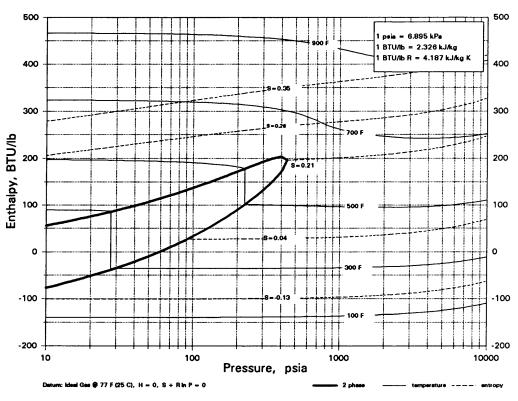


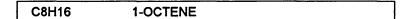


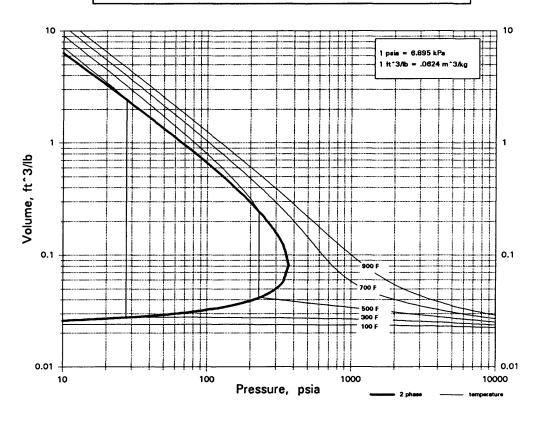


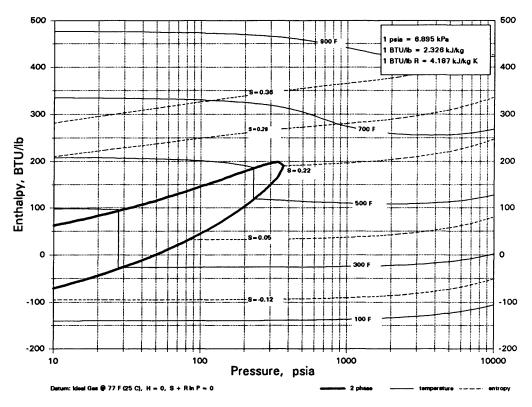




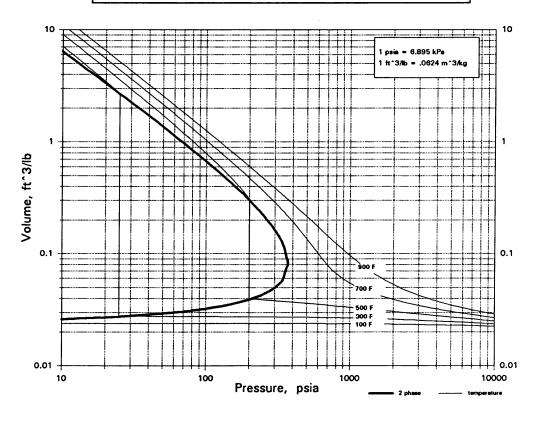


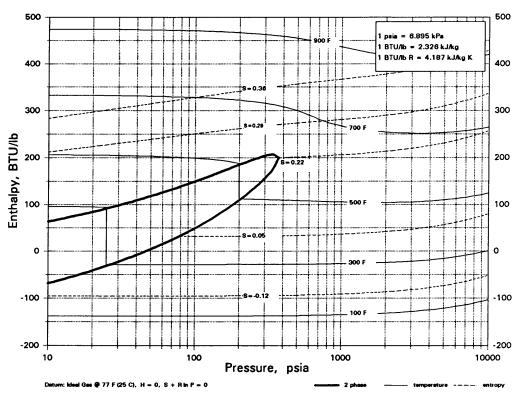




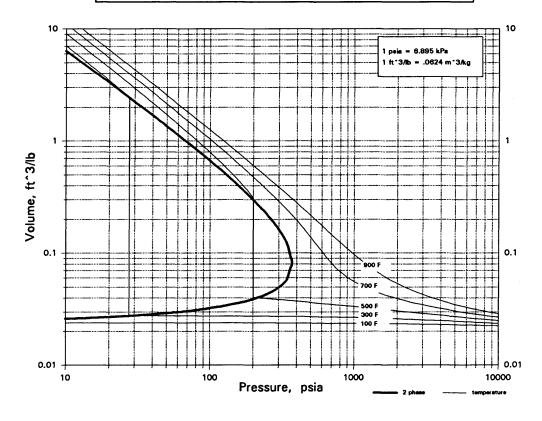


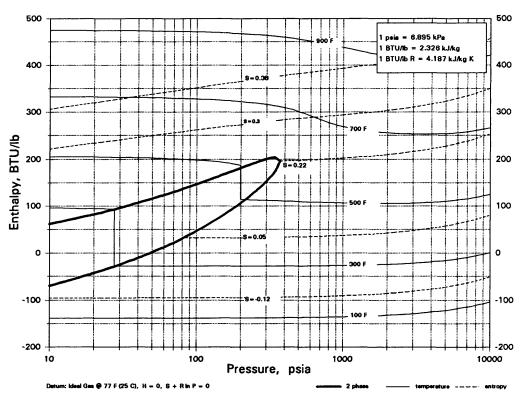




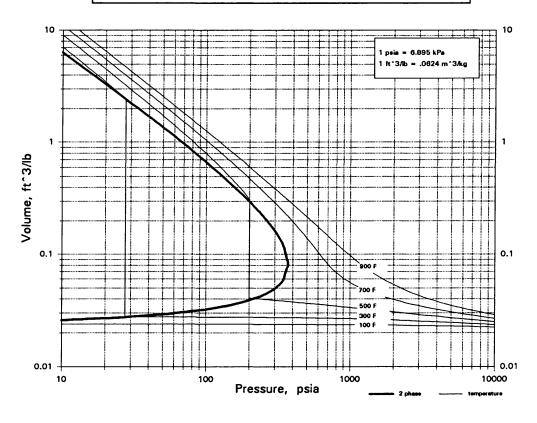


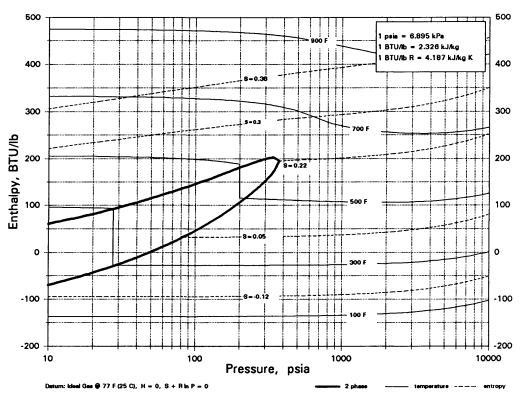




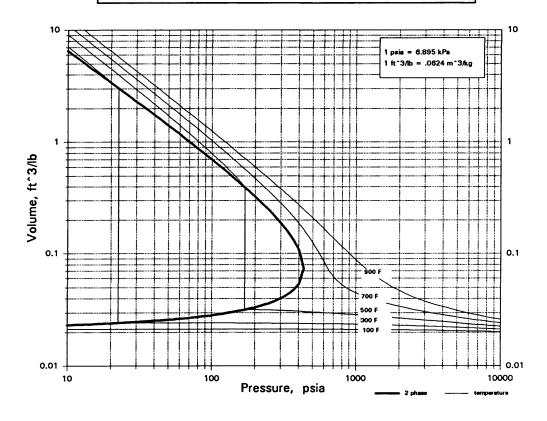


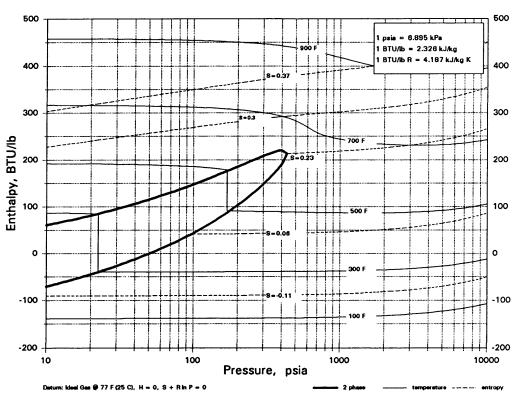




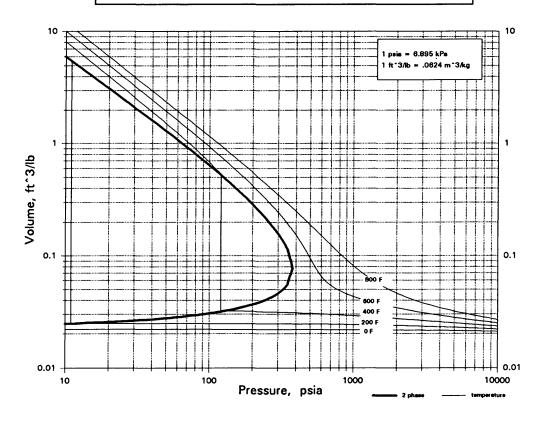


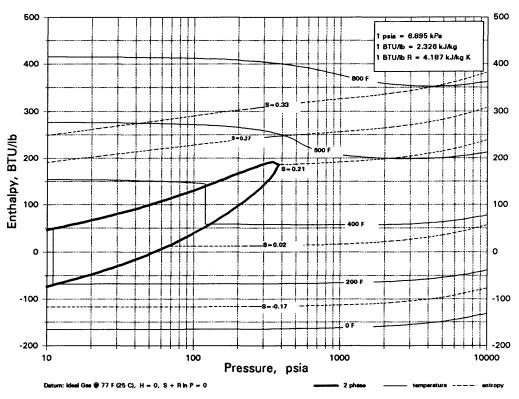




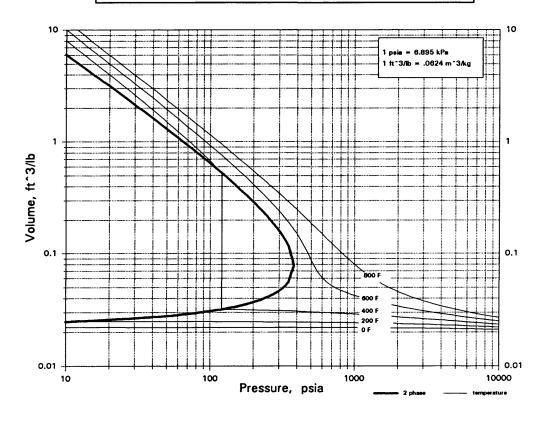


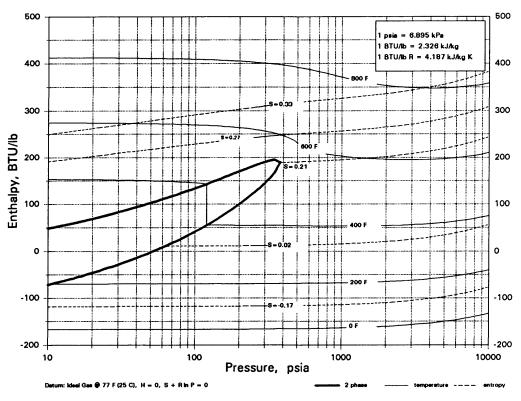




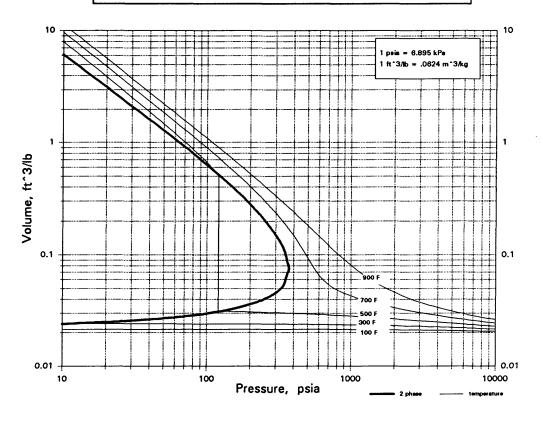


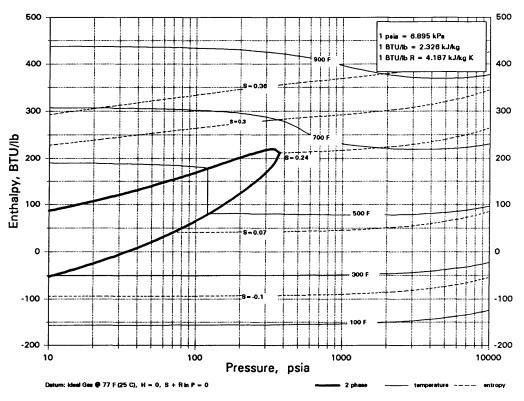




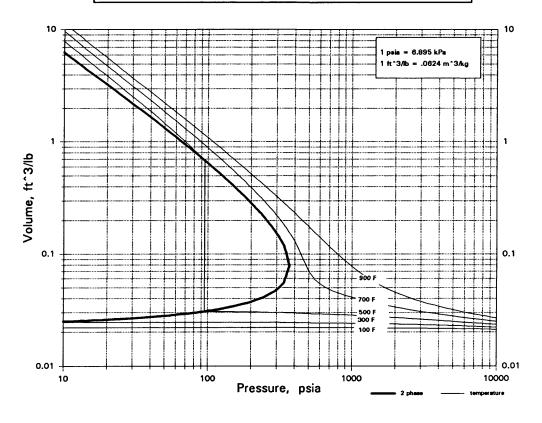


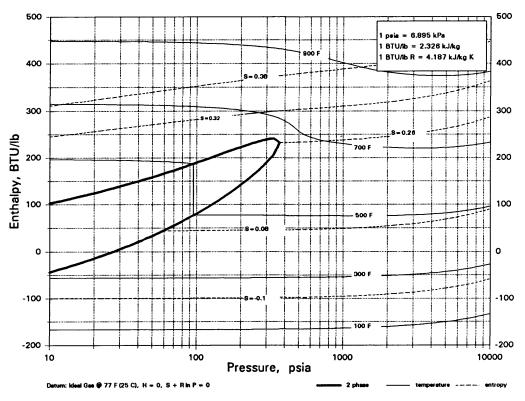




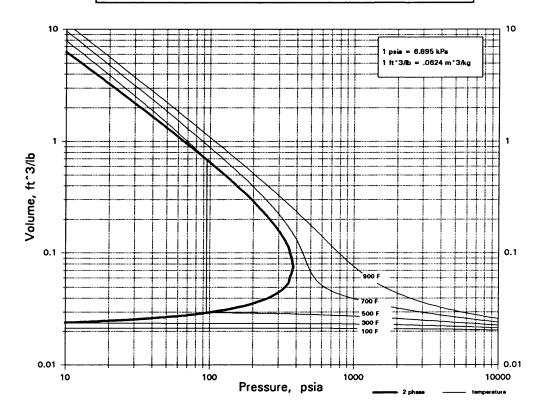


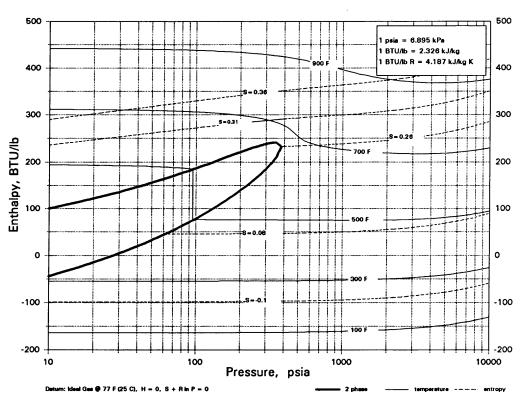


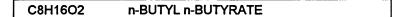


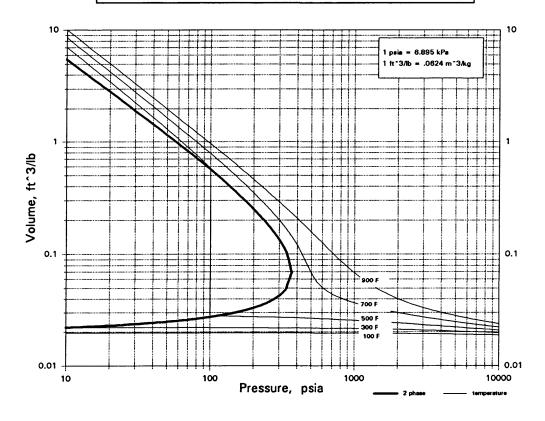


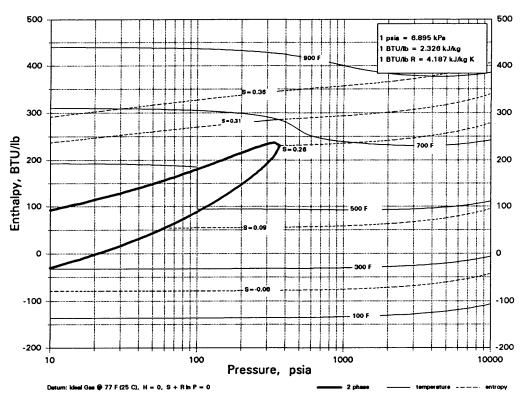




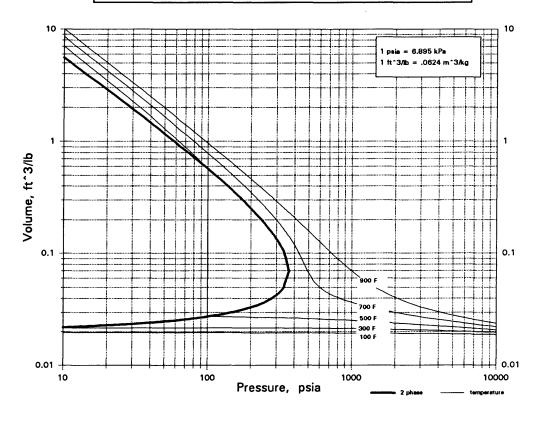


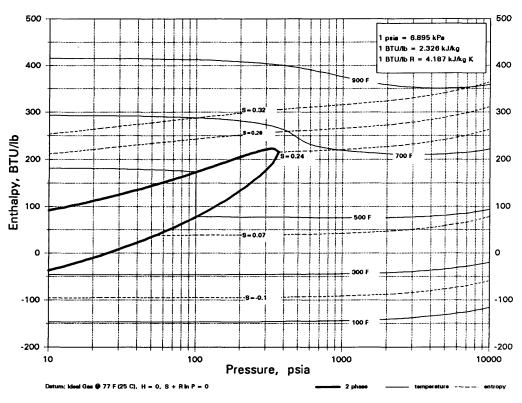




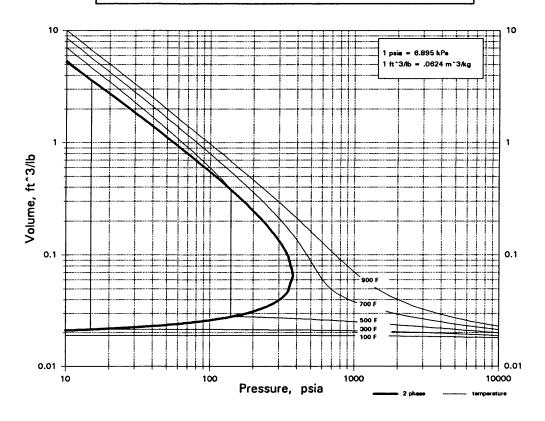


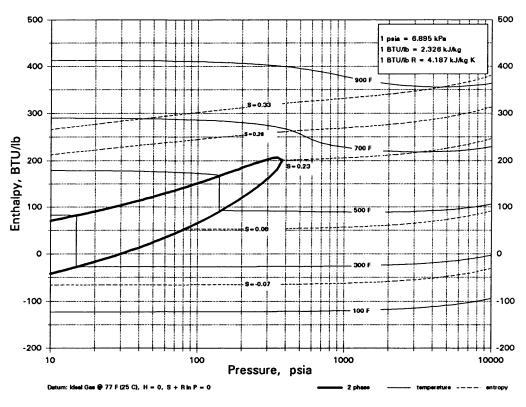




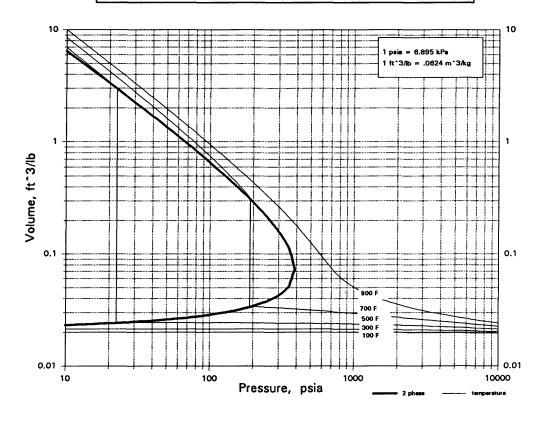


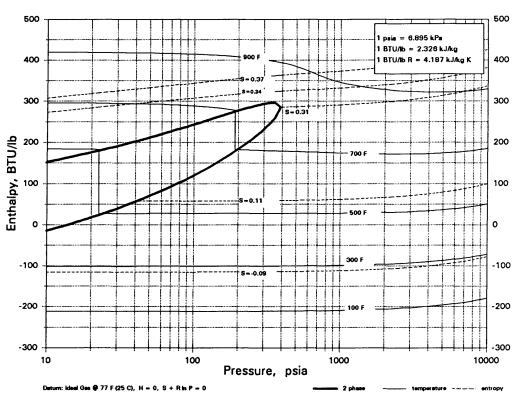




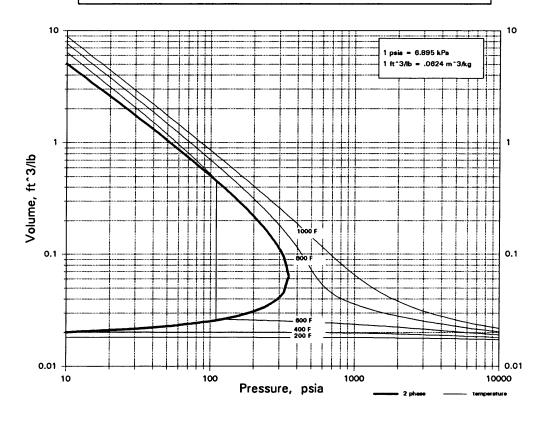


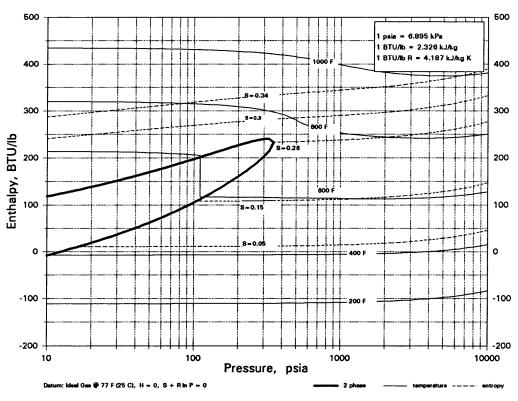


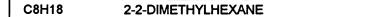


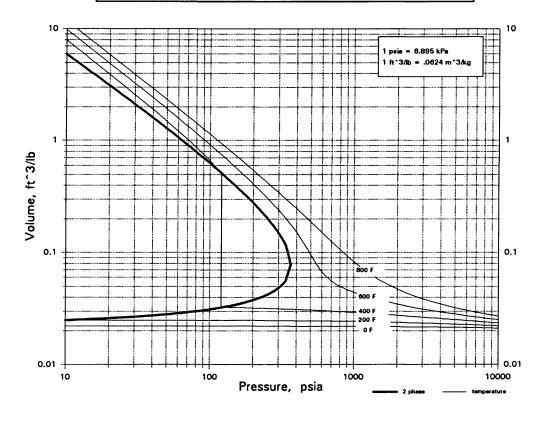


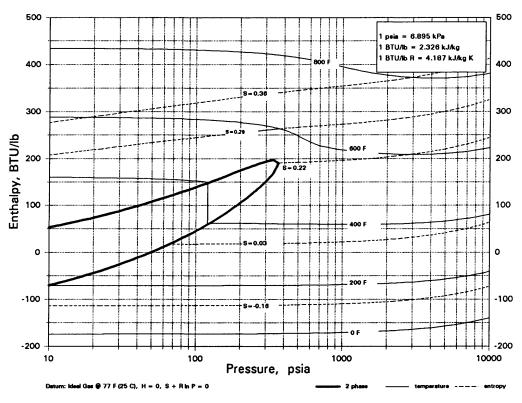




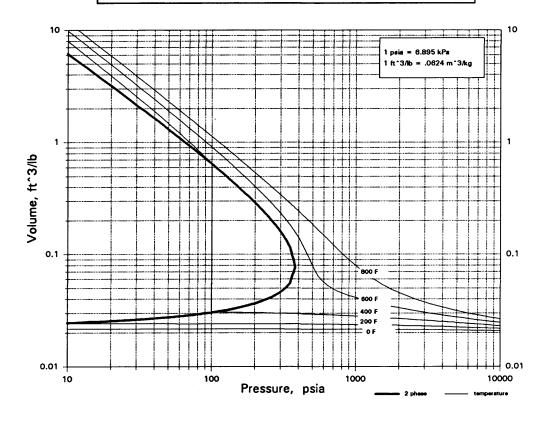


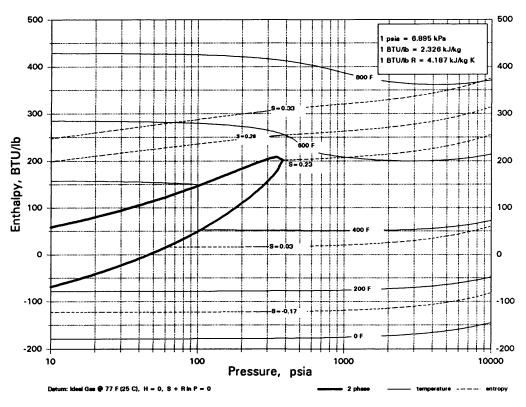




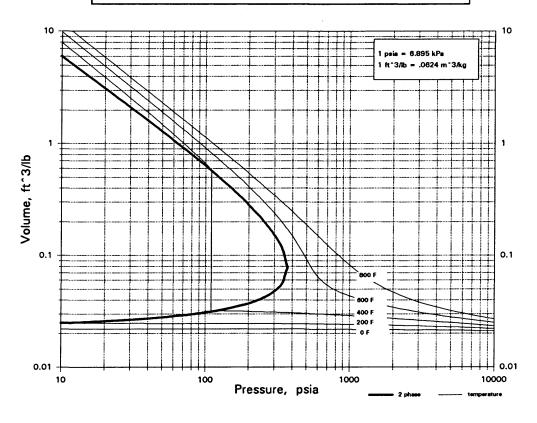


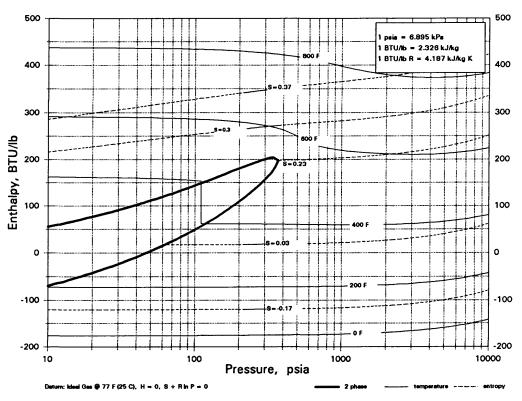




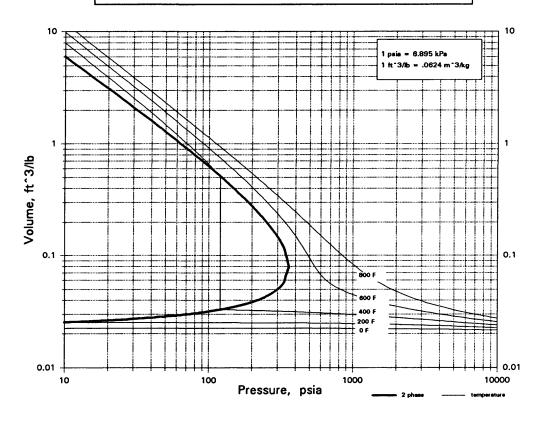


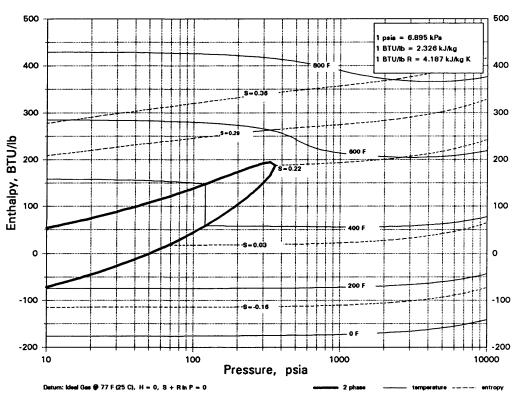




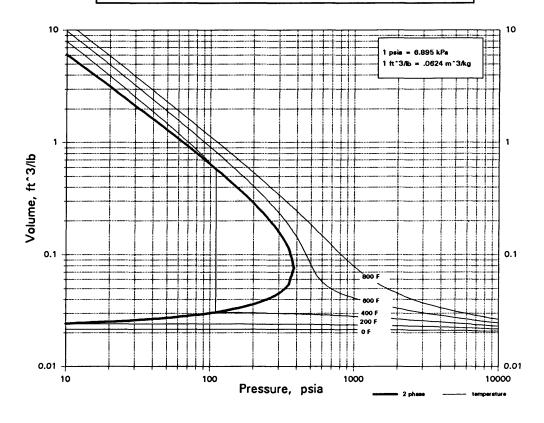


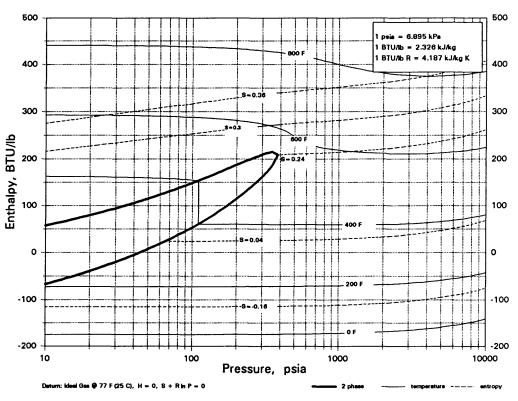


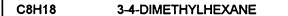


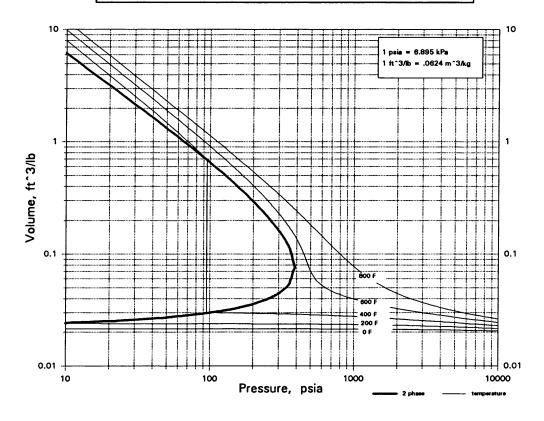


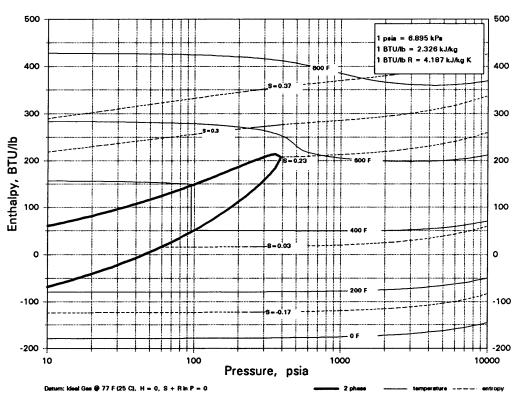




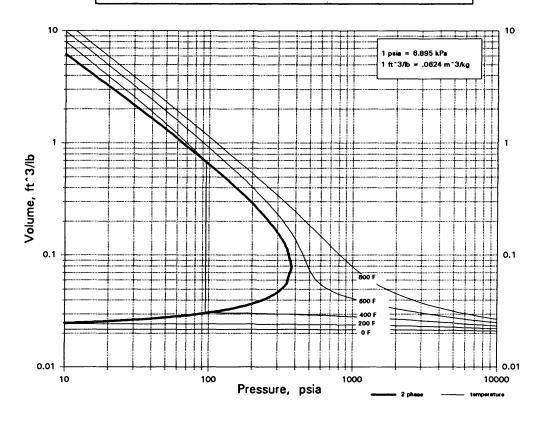


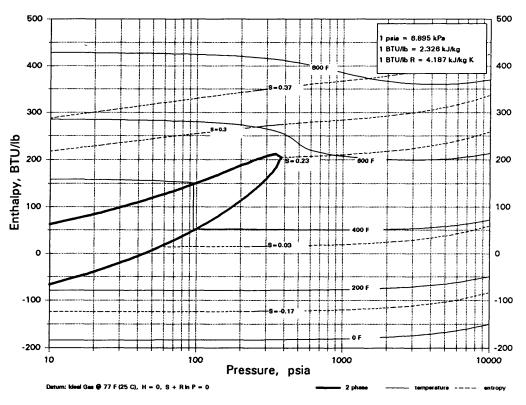




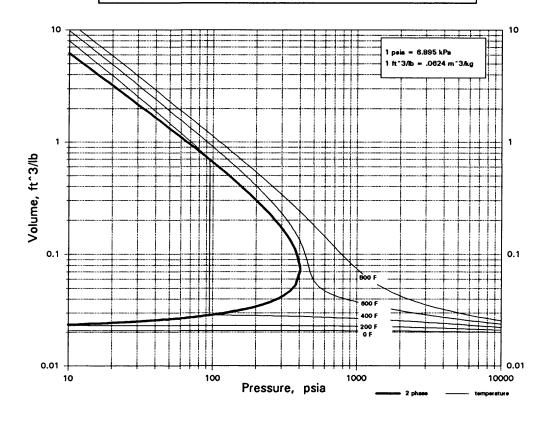


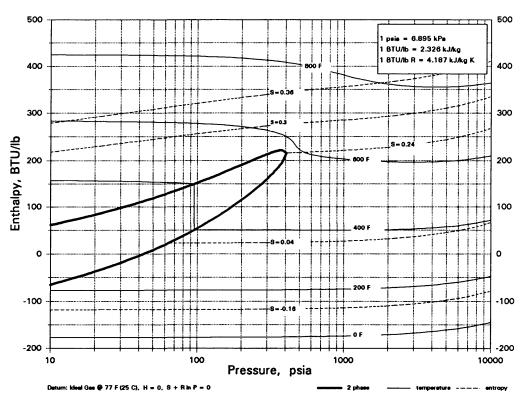




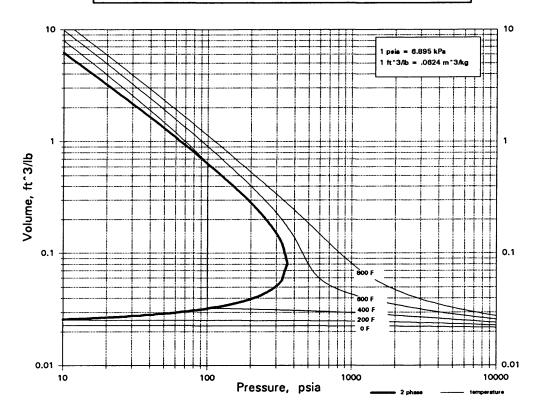


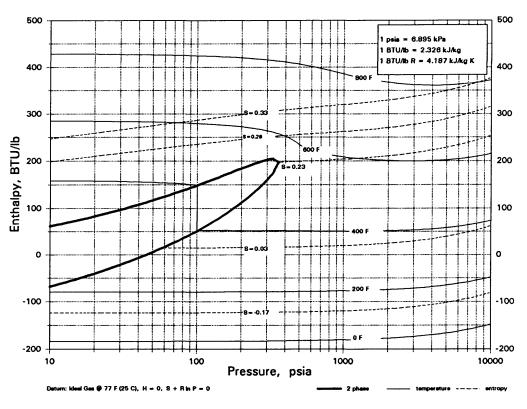




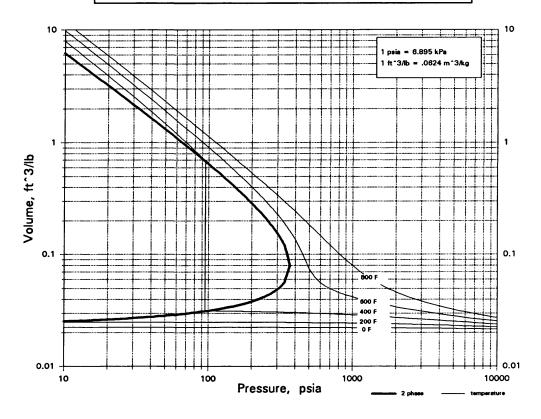


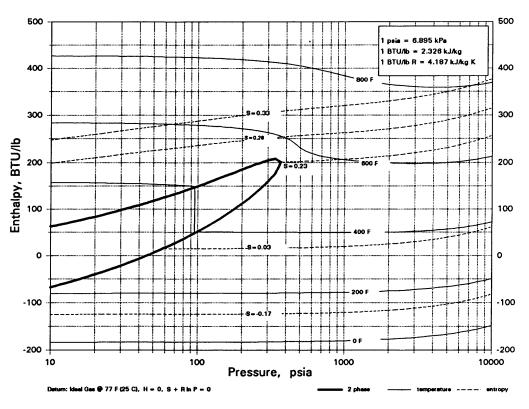




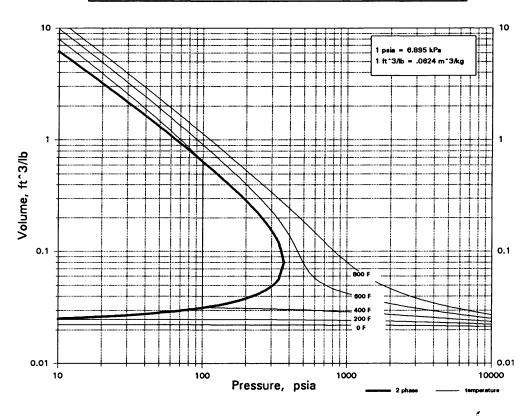


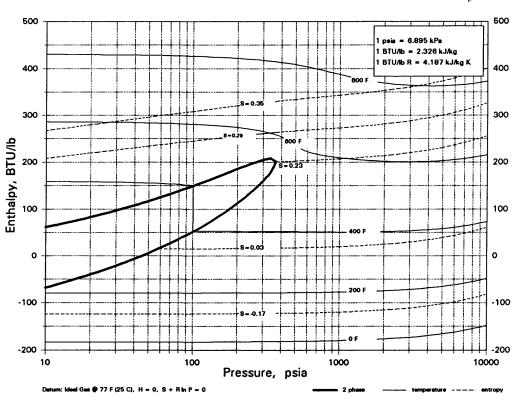




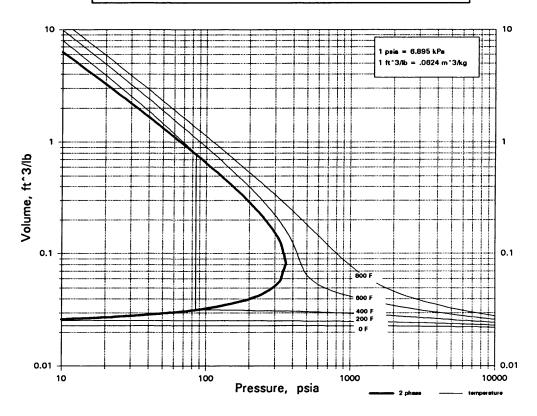


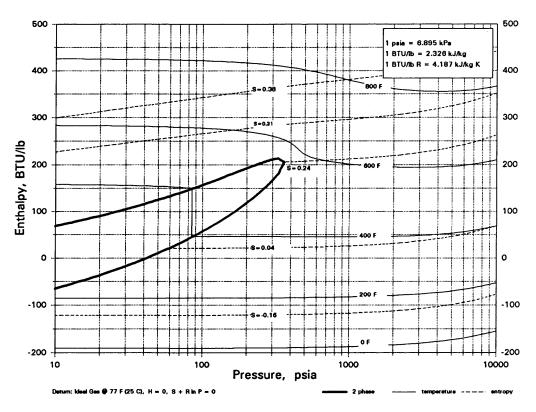




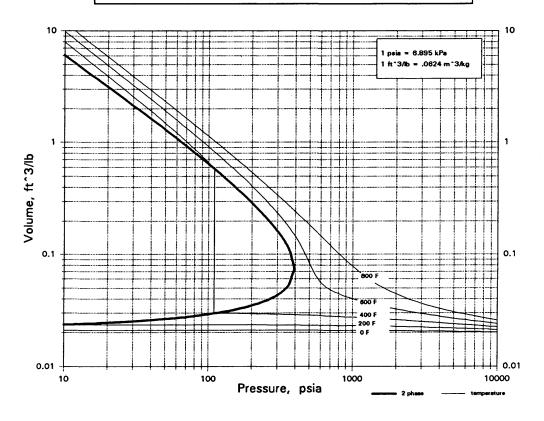


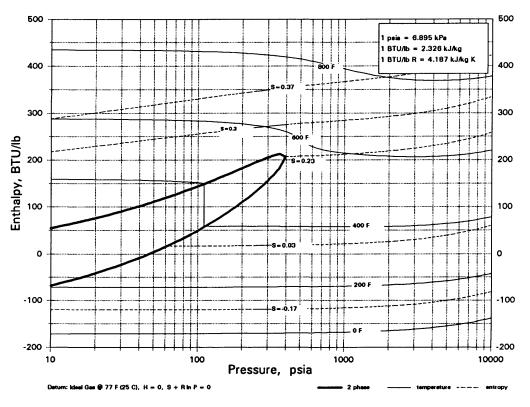




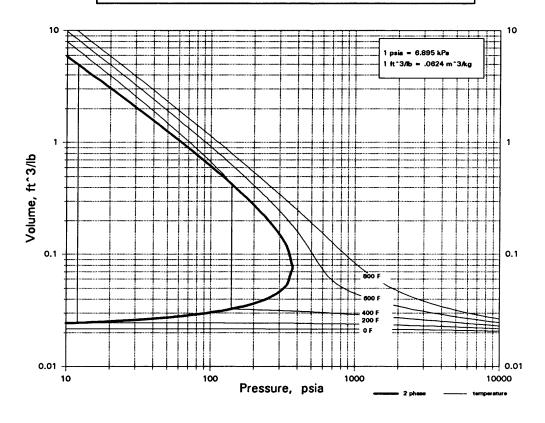


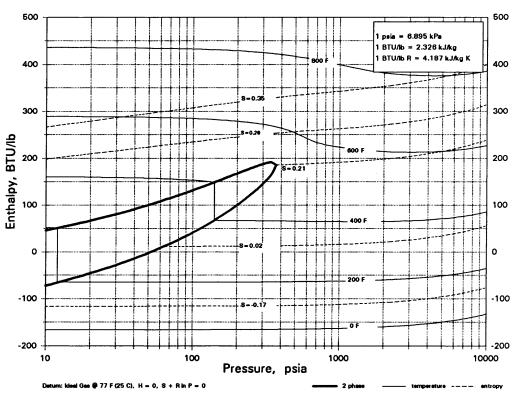




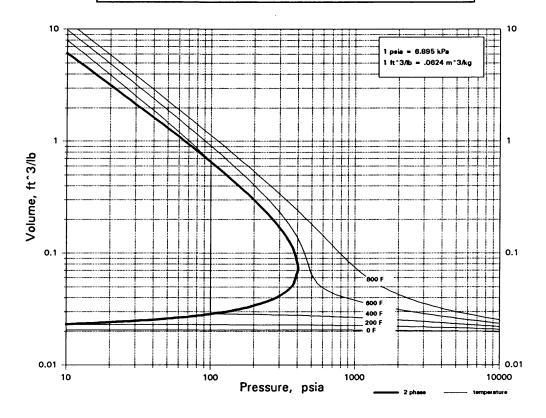


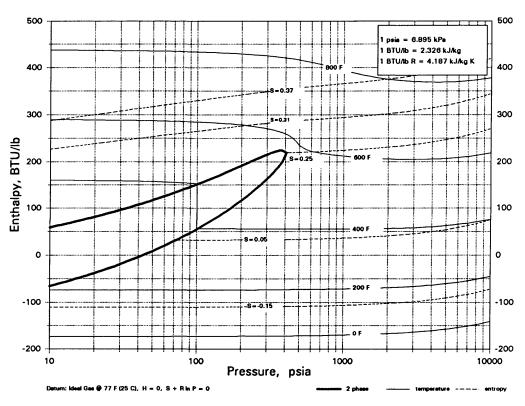




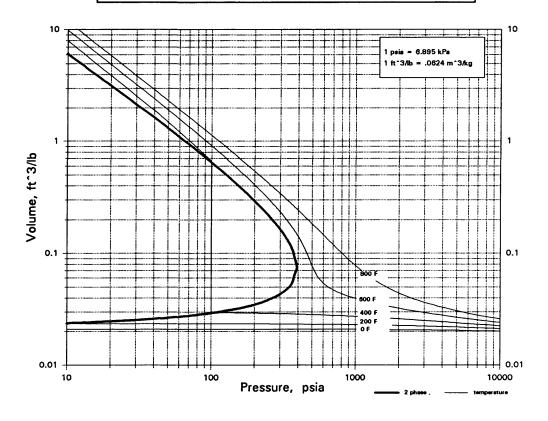


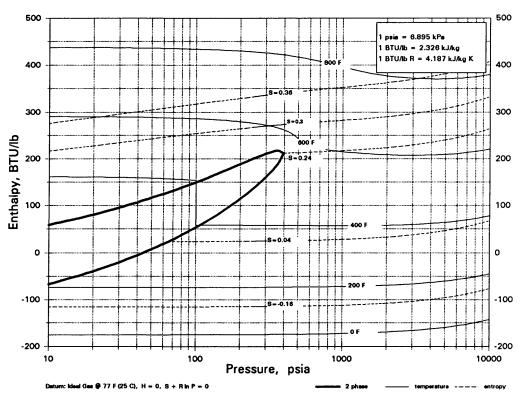




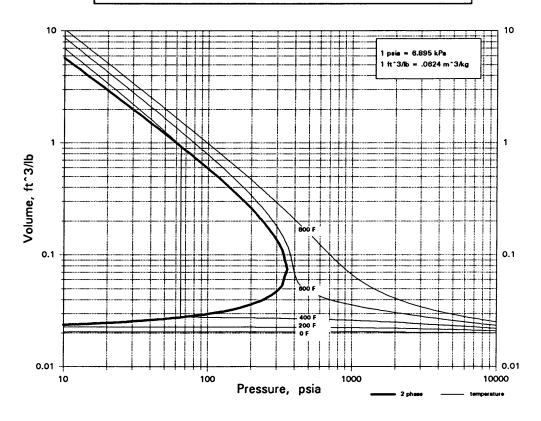


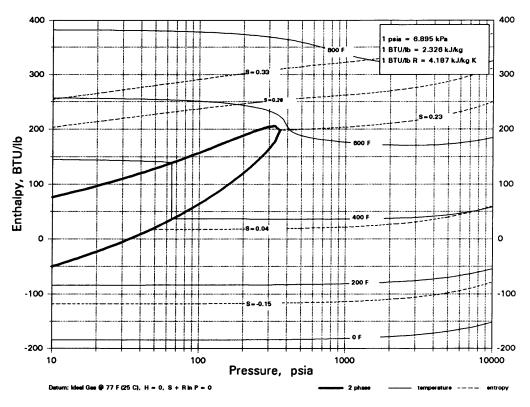




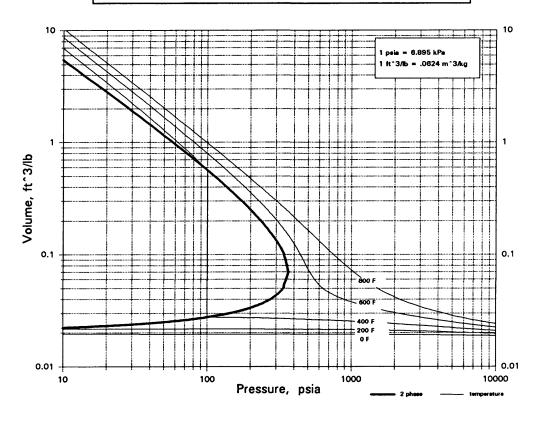


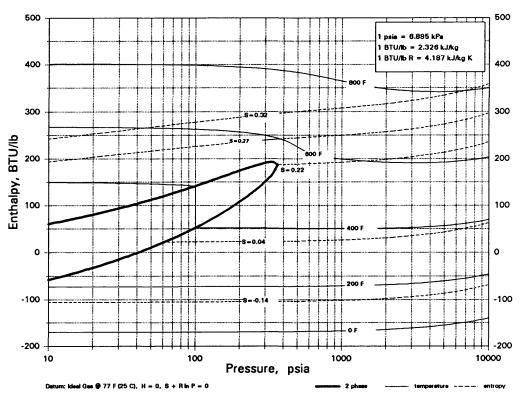




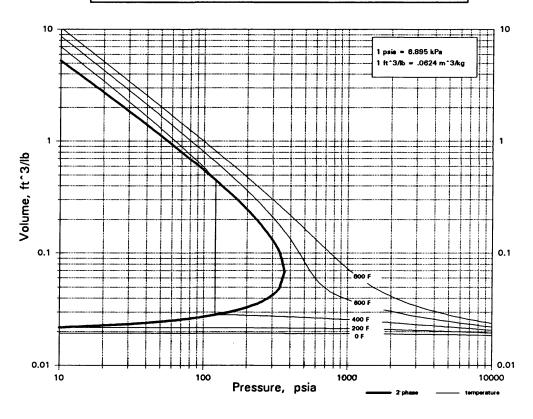


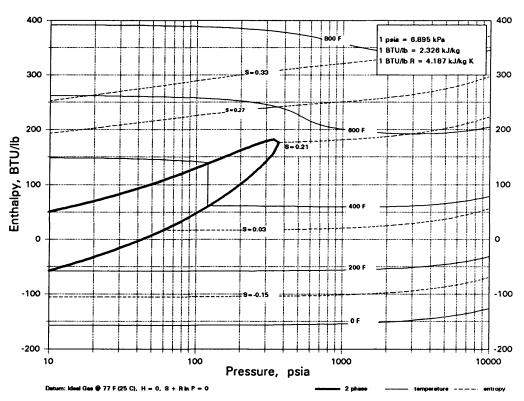


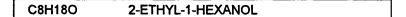


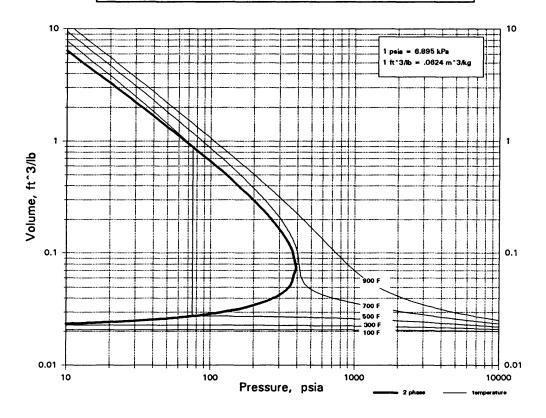


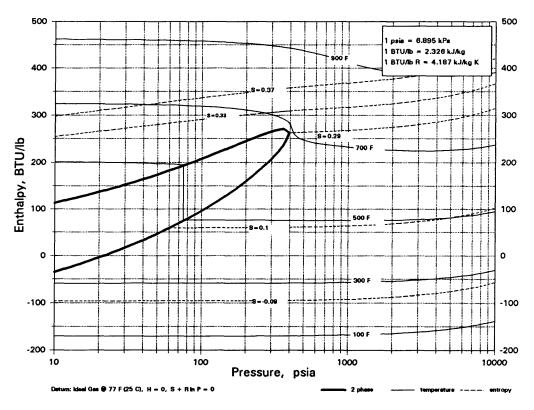


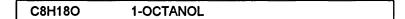


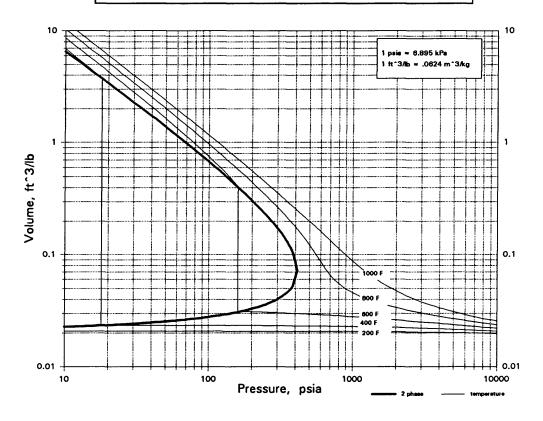


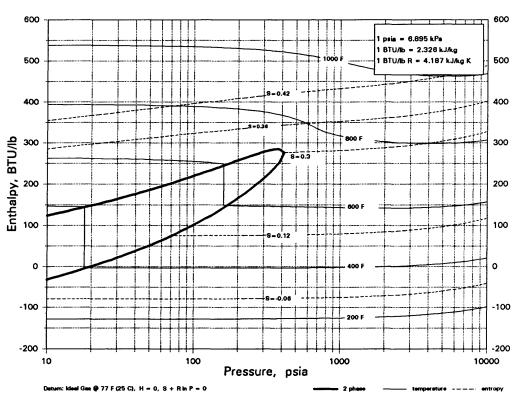




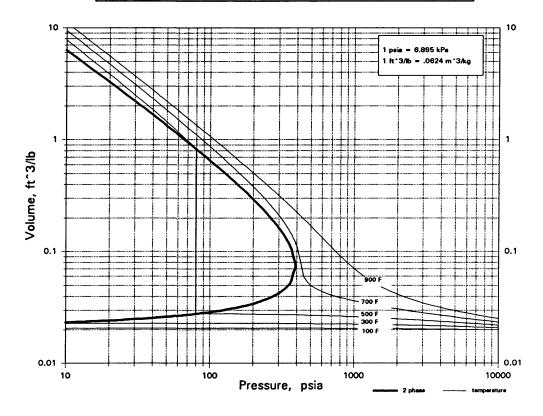


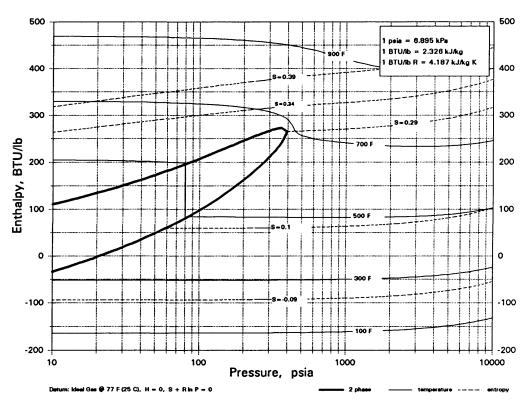




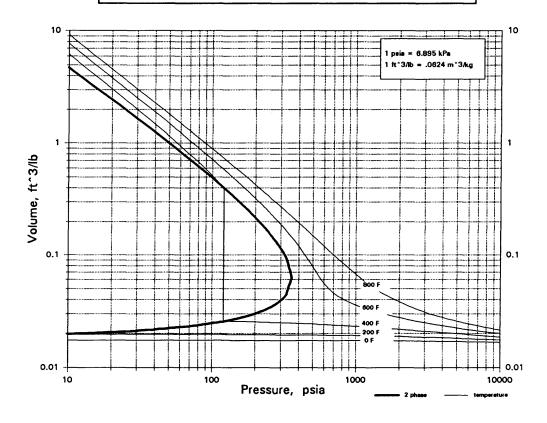


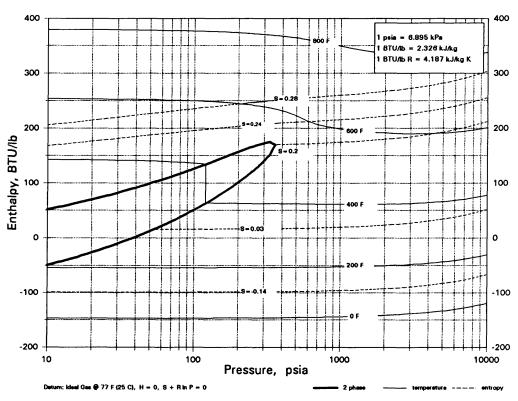




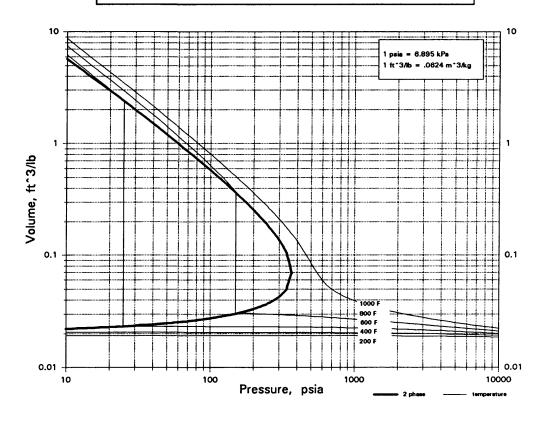


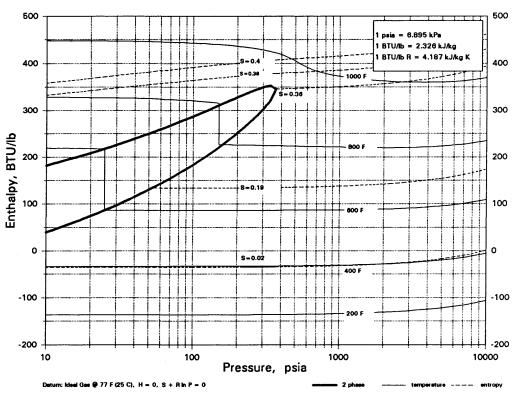
C8H18O2 DI-t-BUTYL PEROXIDE



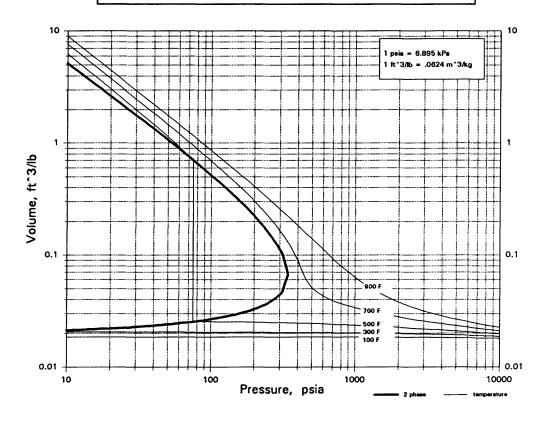


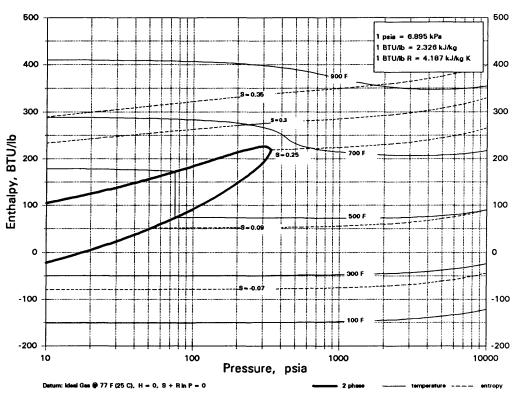
C8H18O2S DI-n-BUTYL SULFONE



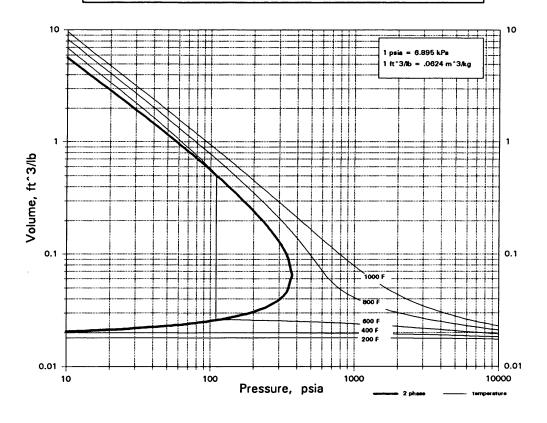


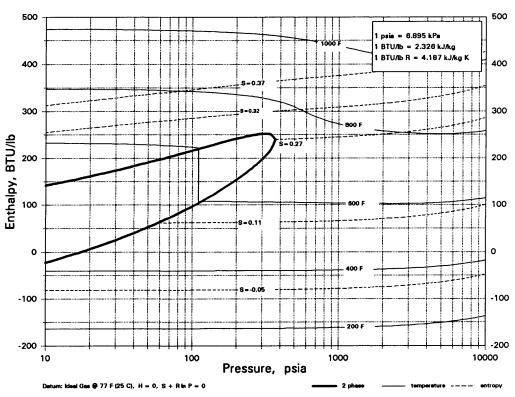
C8H18O3 DIETHYLENE GLYCOL DIETHYL ETHER



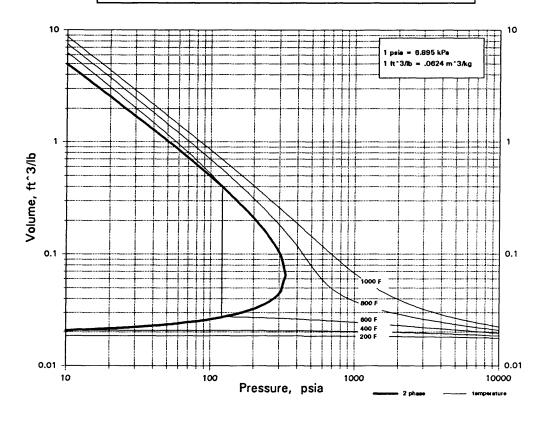


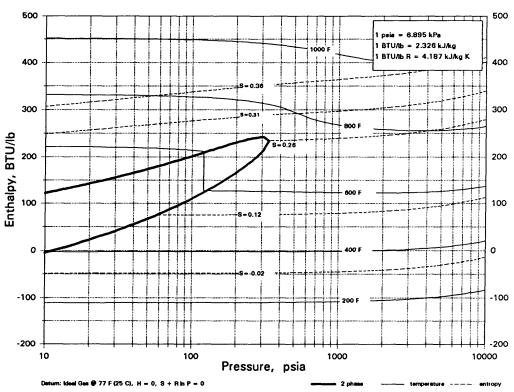
C8H18O3 DIETHYLENE GLYCOL MONOBUTYL ETHER



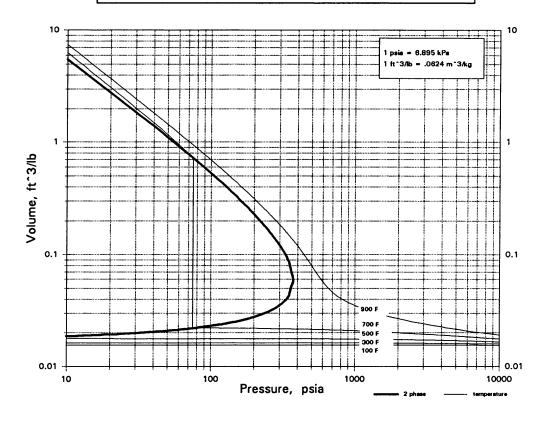


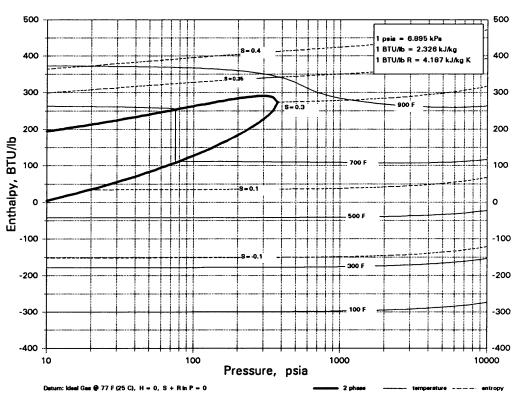
C8H18O4 TRIETHYLENE GLYCOL DIMETHYL ETHER



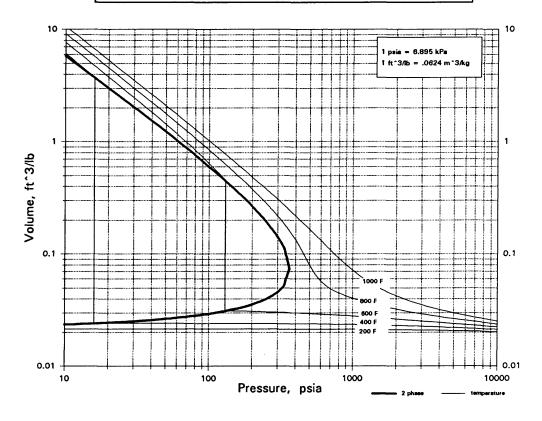


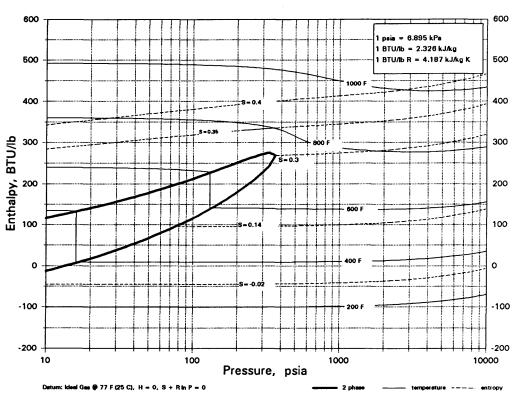
C8H18O5 TETRAETHYLENE GLYCOL



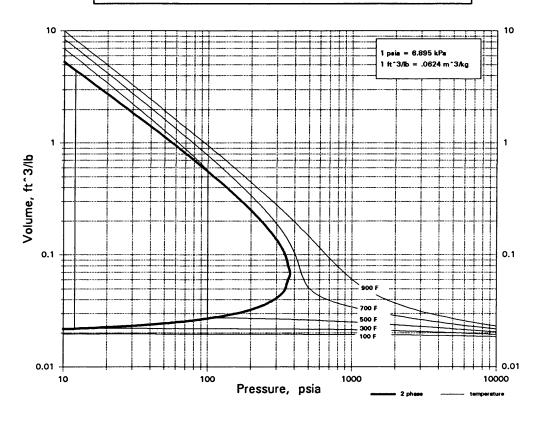


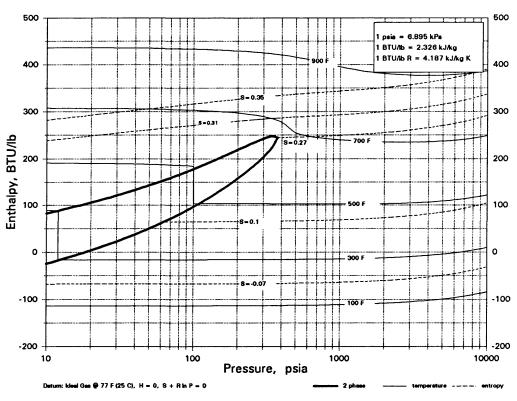


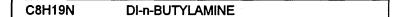


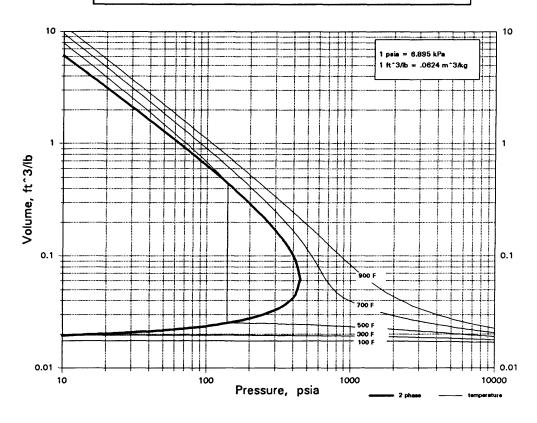


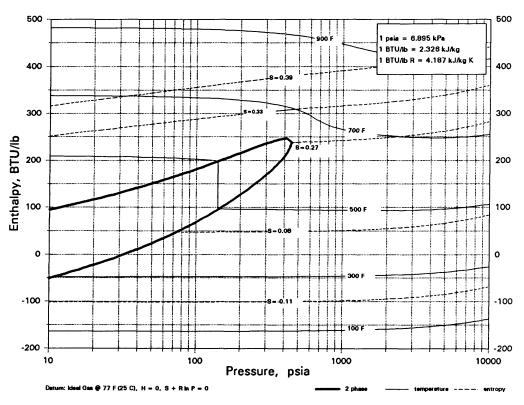




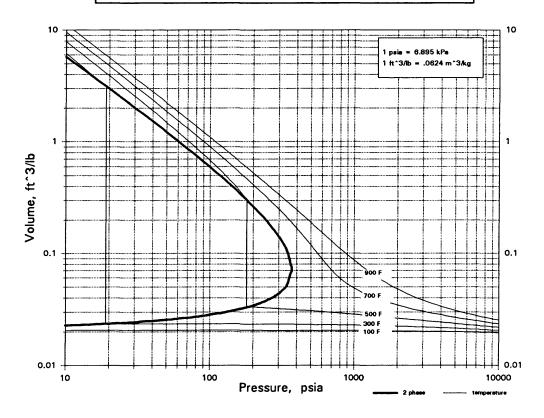


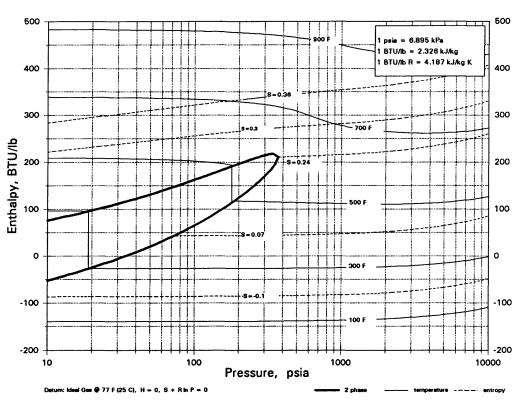




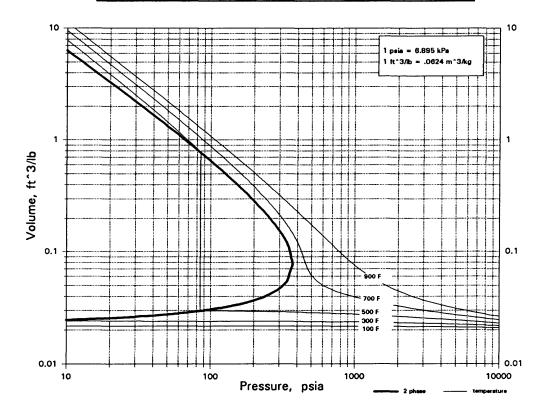


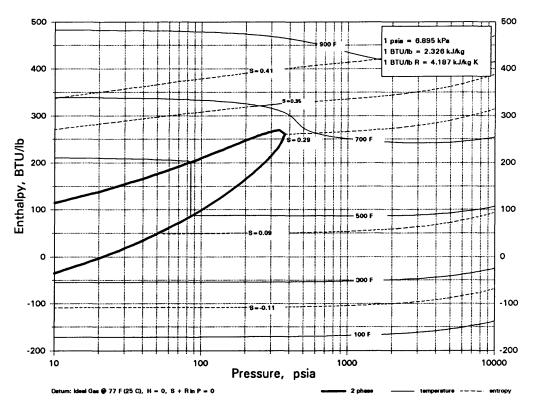




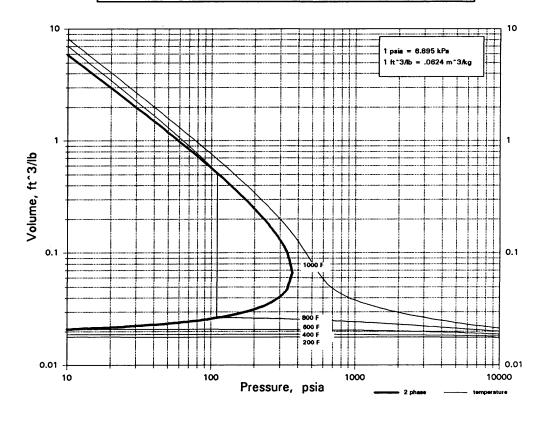


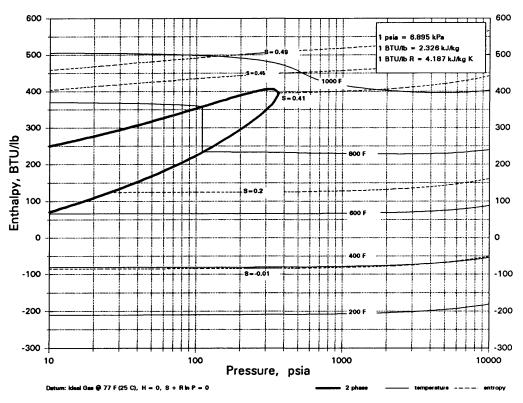




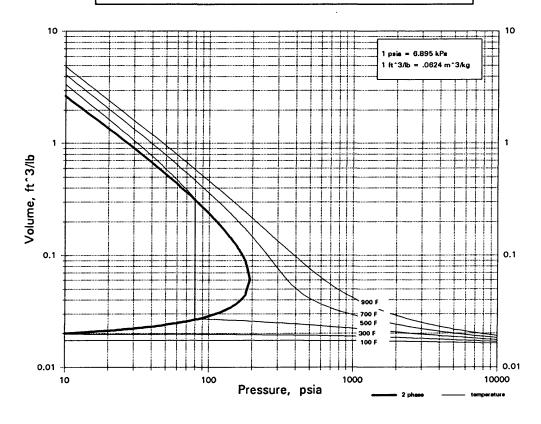


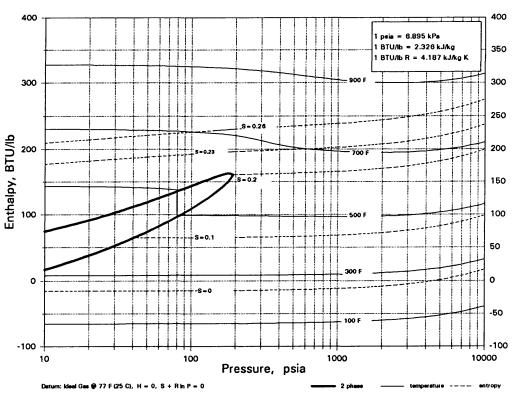
C8H23N5 TETRAETHYLENEPENTAMINE



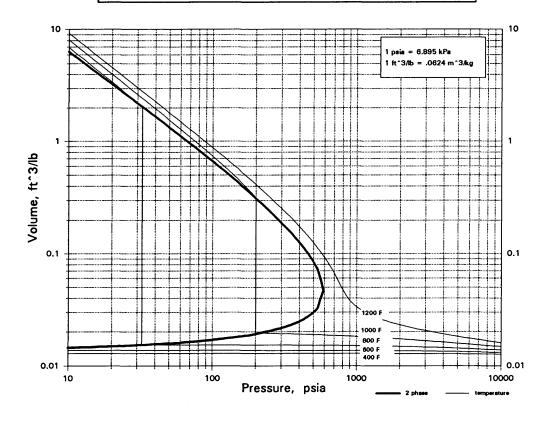


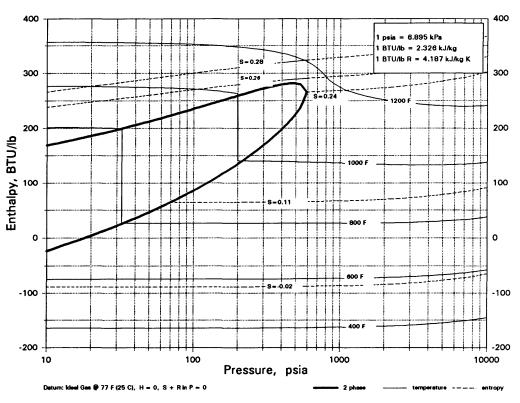
C8H24O4Si4 OCTAMETHYLCYCLOTETRASILOXANE



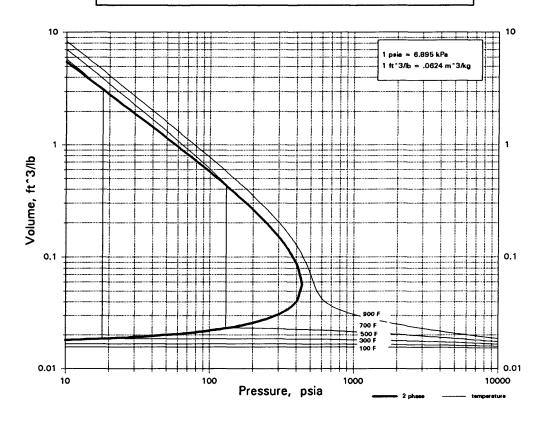


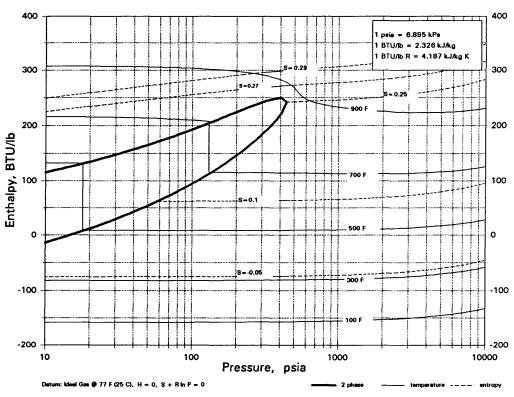




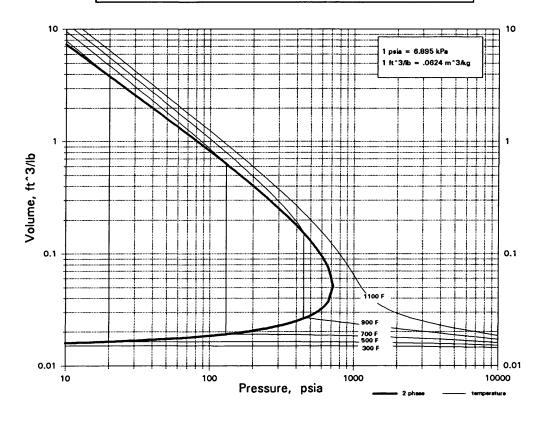


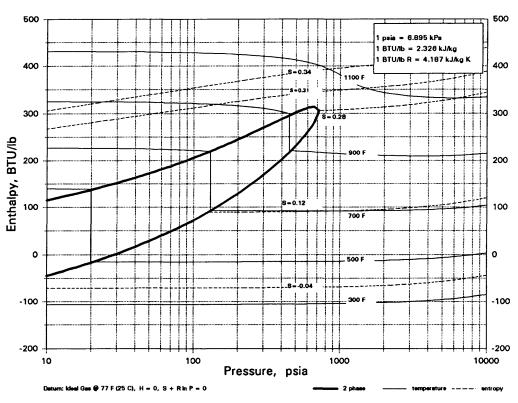
C9H6N2O2 TOLUENE DIISOCYANATE



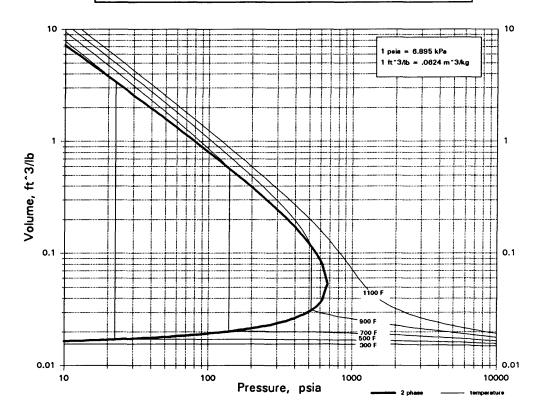


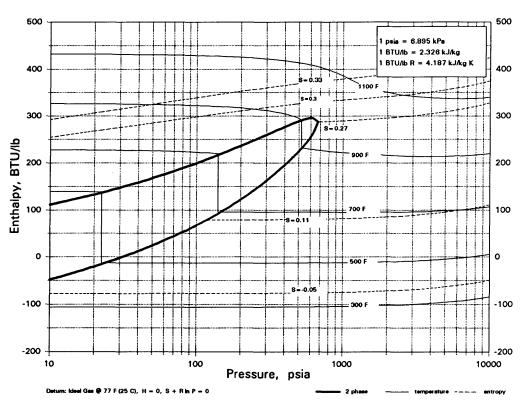




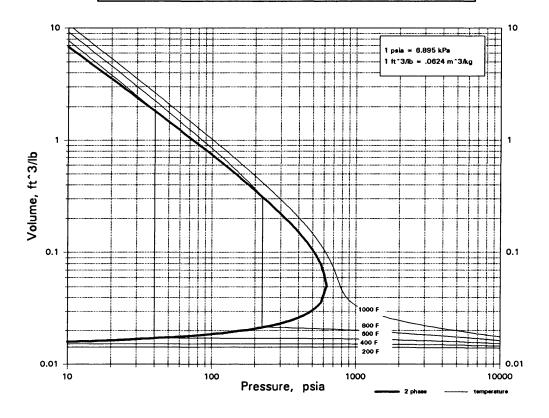


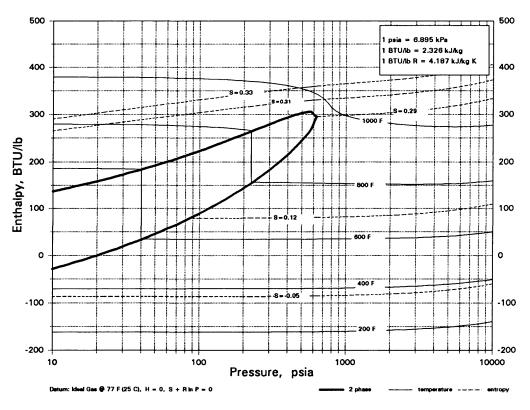




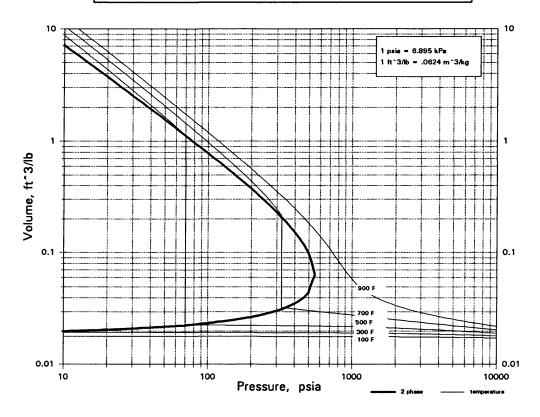


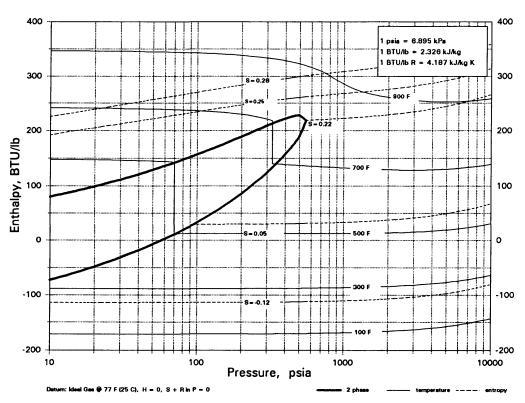




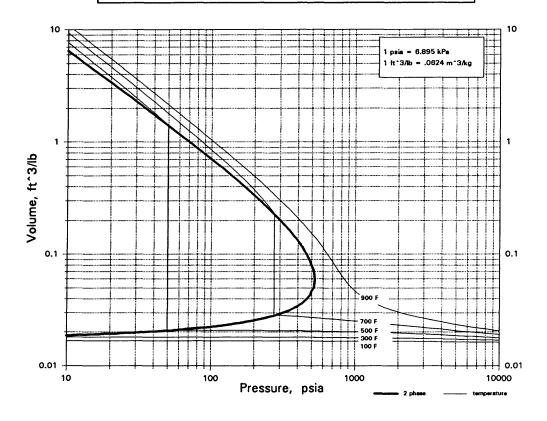


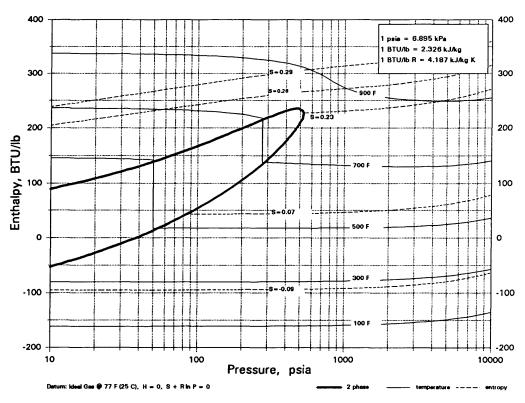




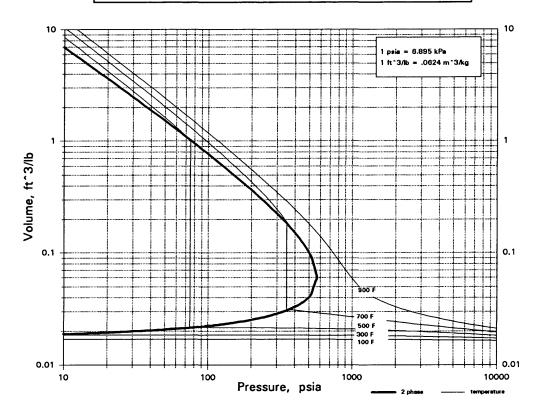


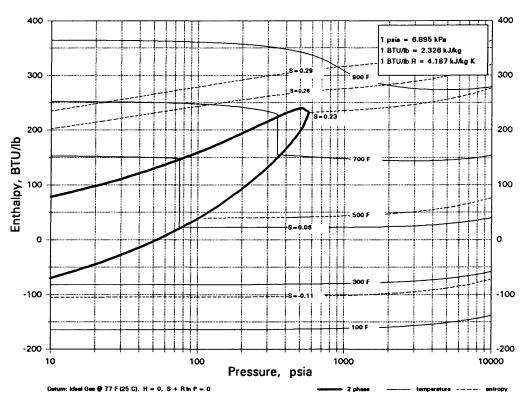


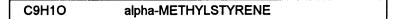


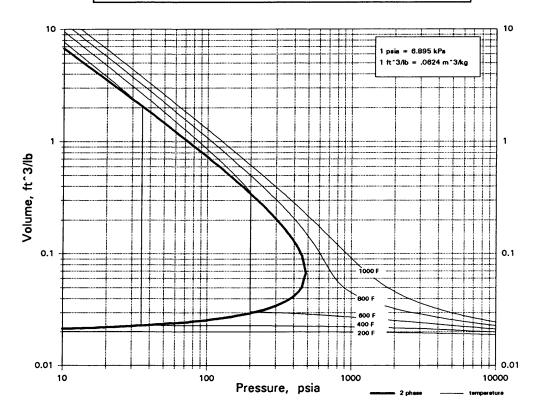


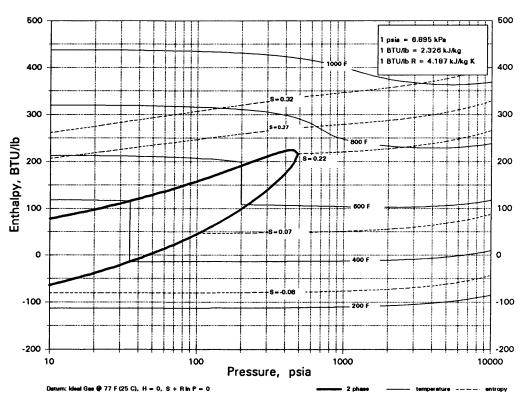




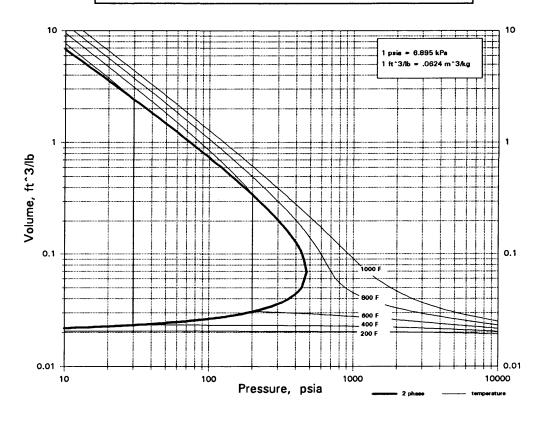


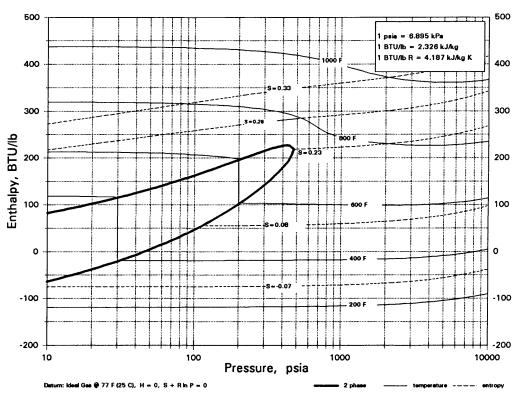




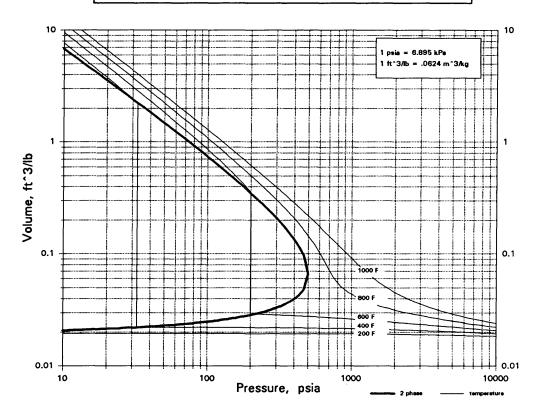


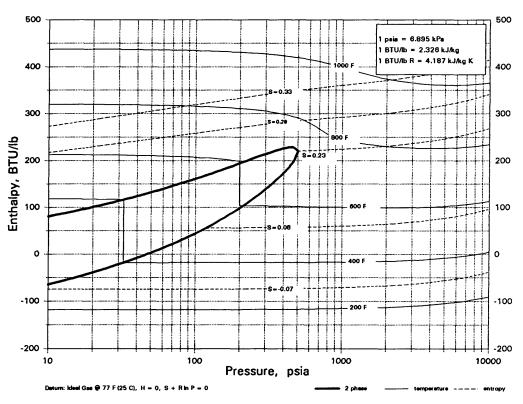




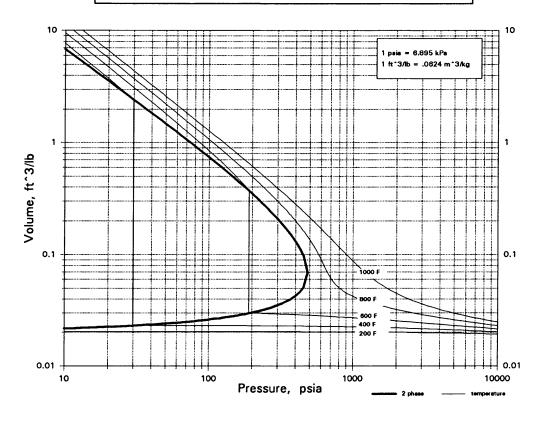


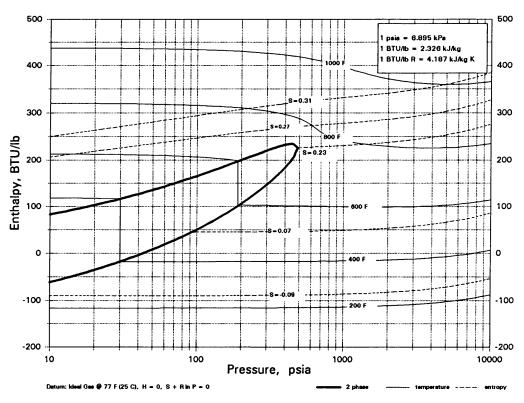




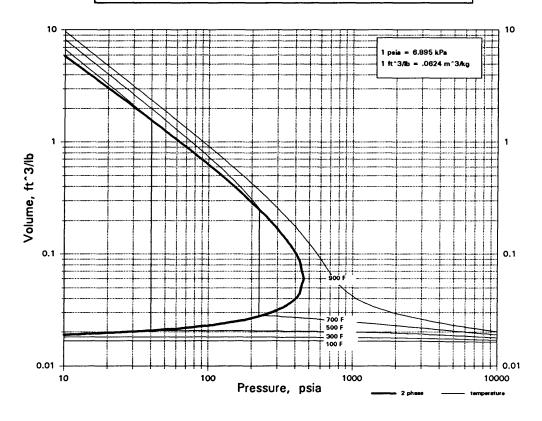


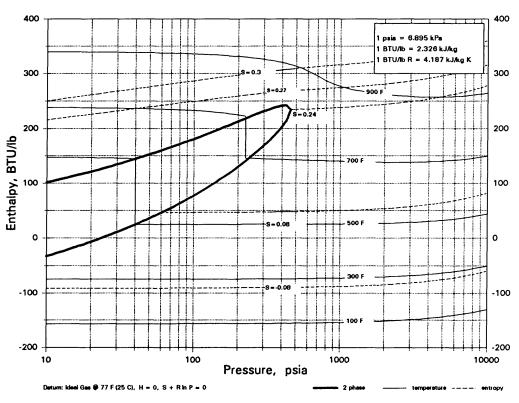




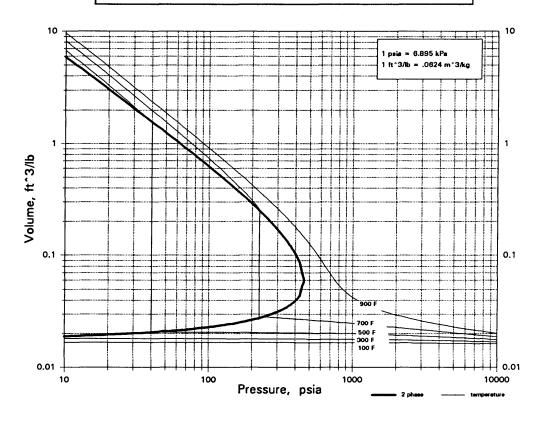


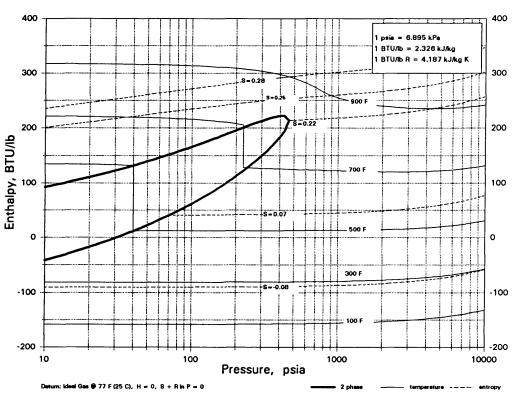


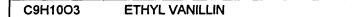


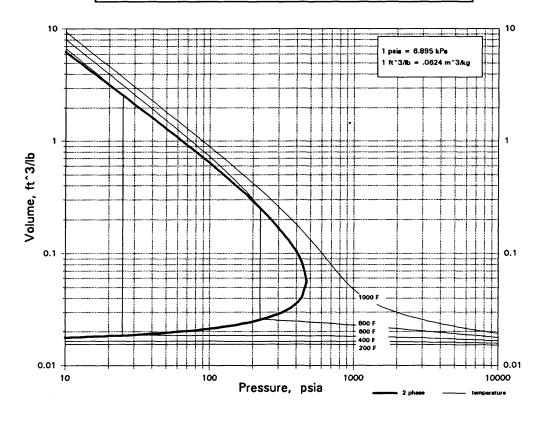


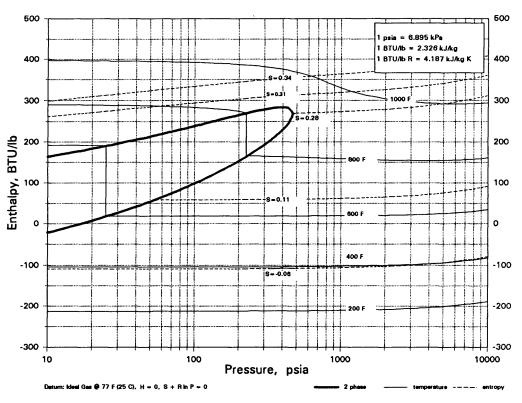




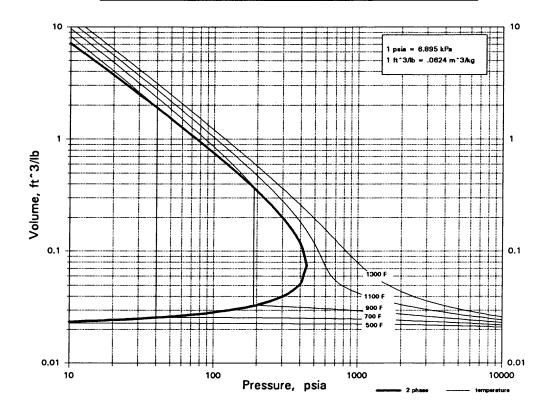


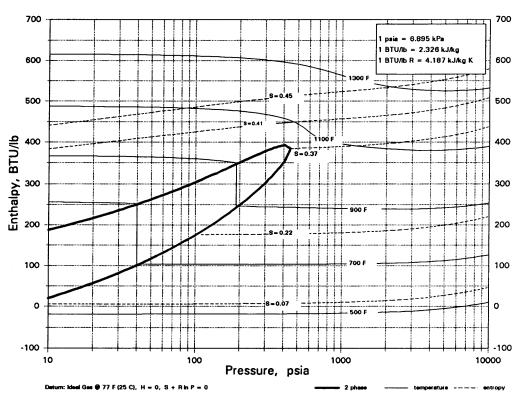




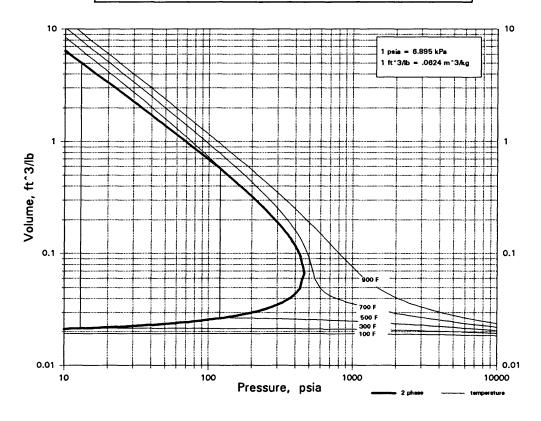


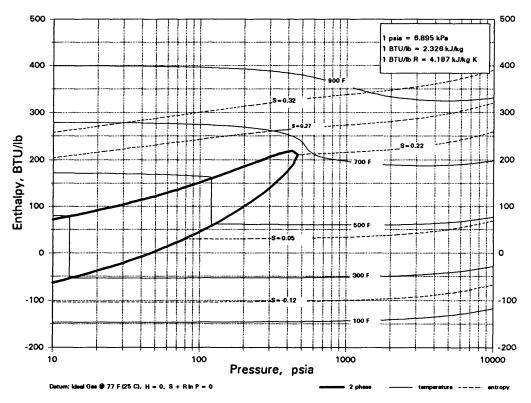




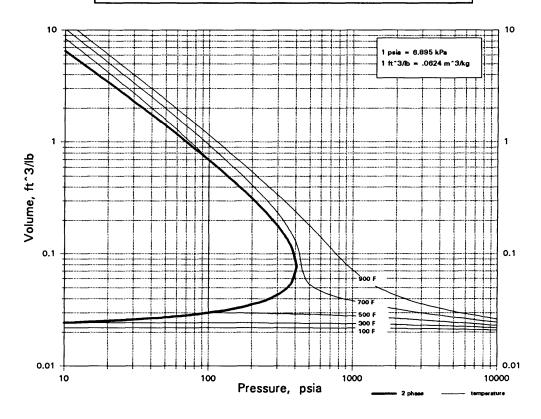


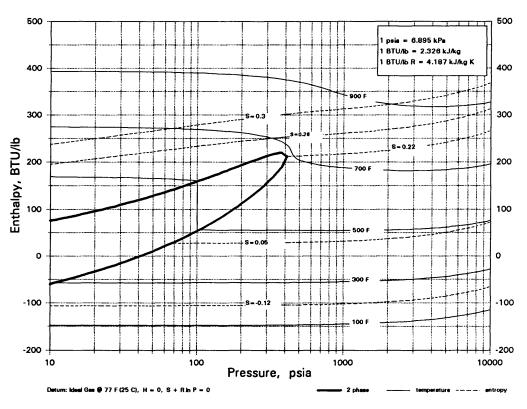


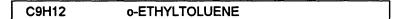


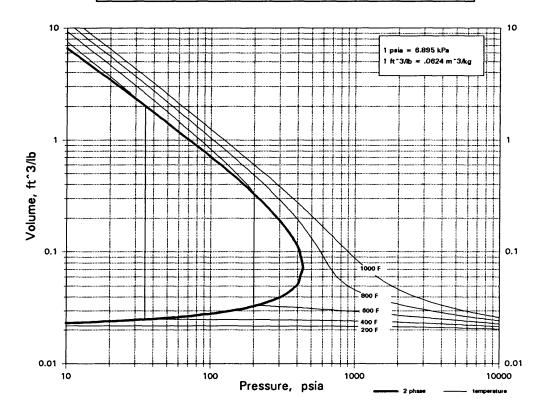


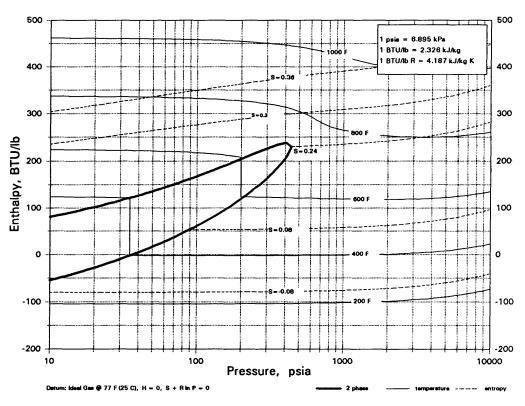




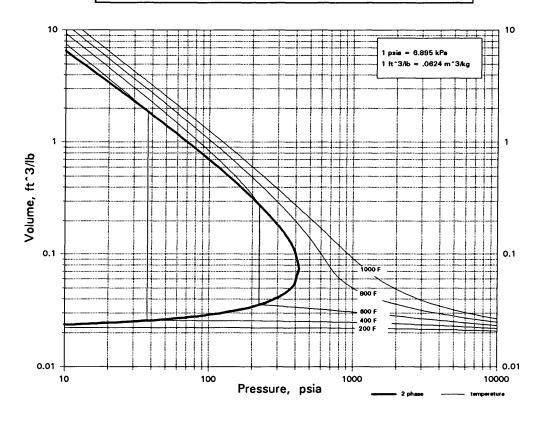


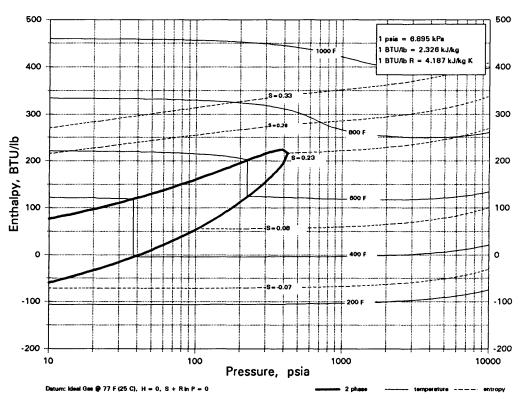




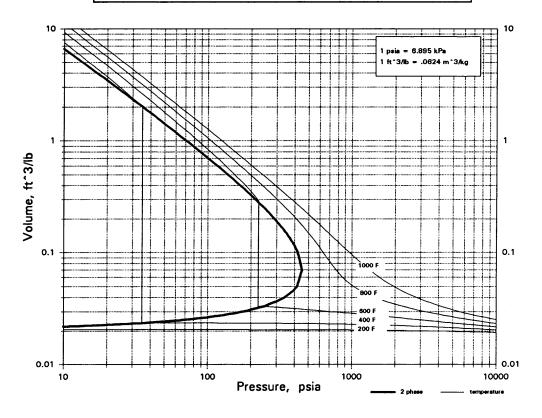


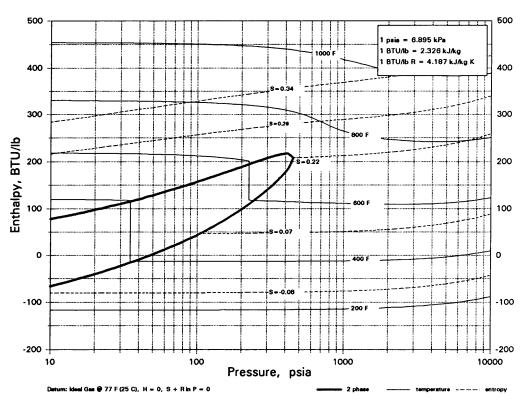




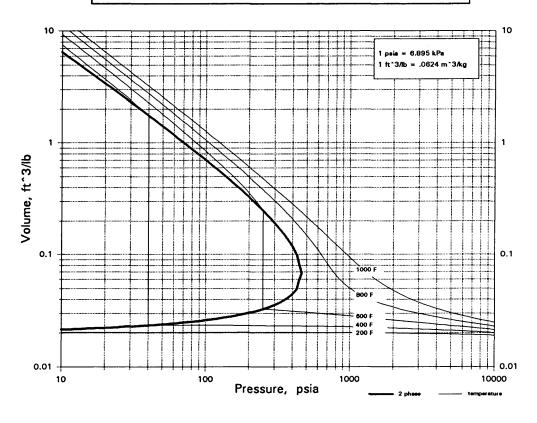


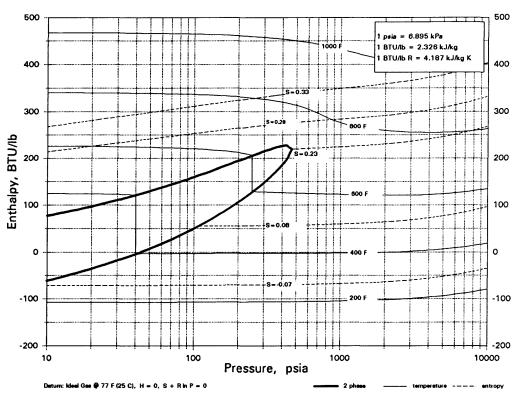




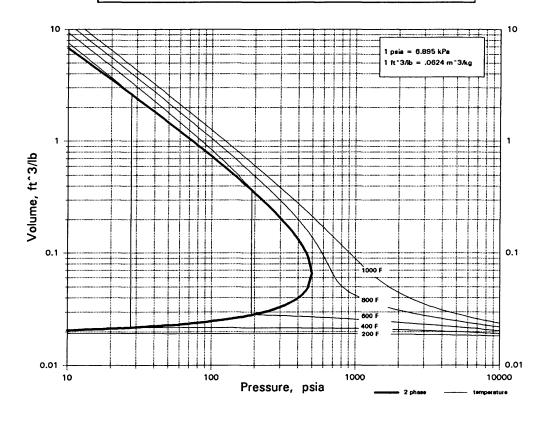


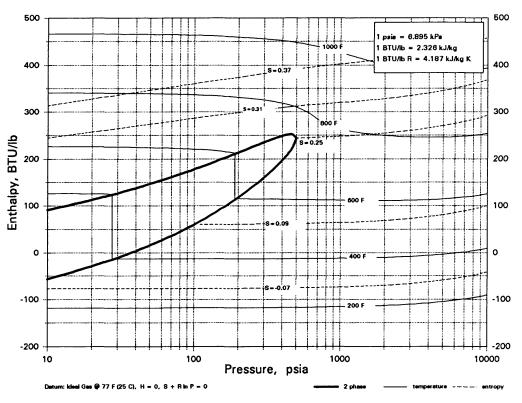




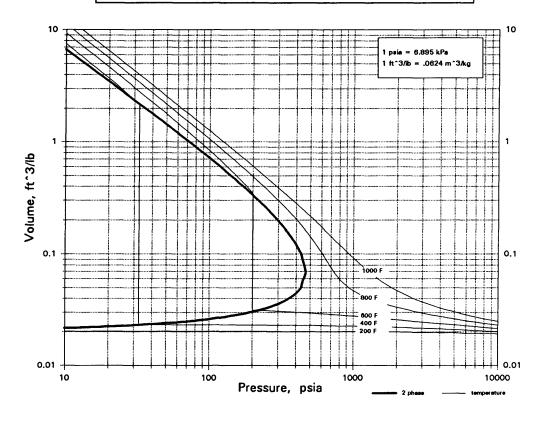


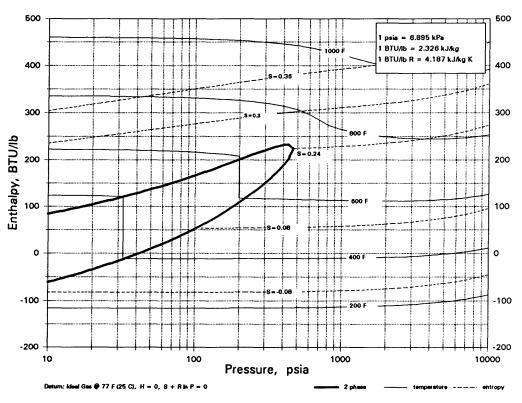




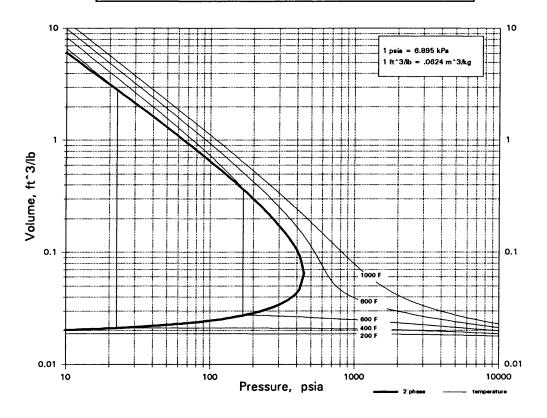


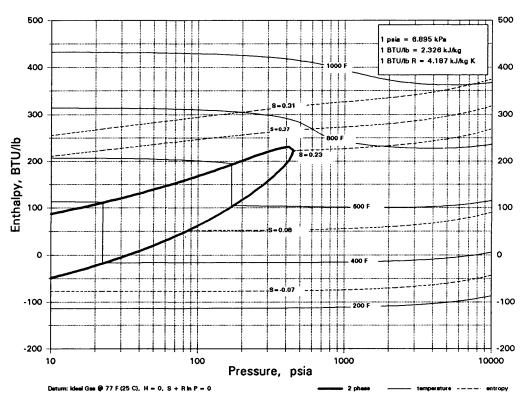




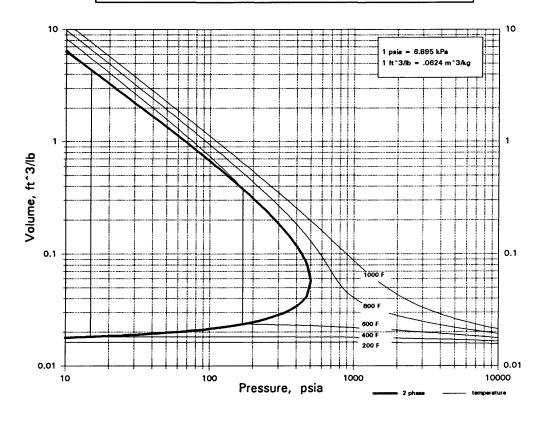


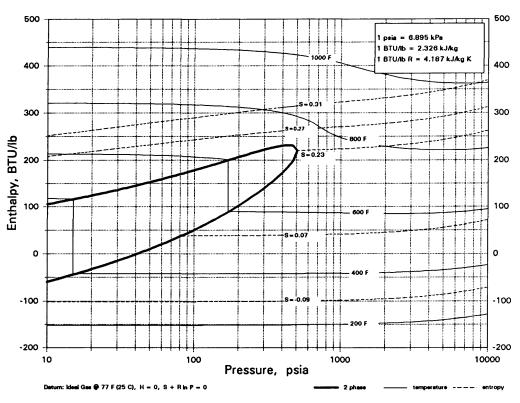




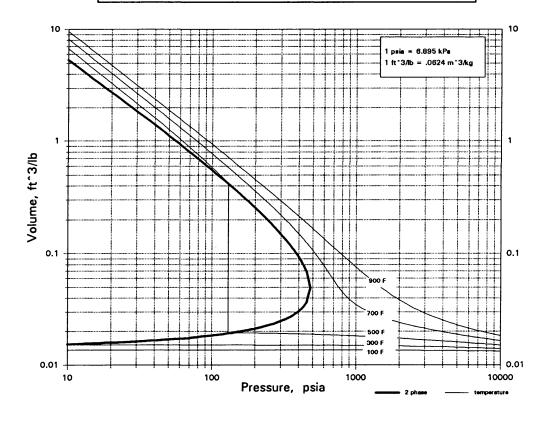


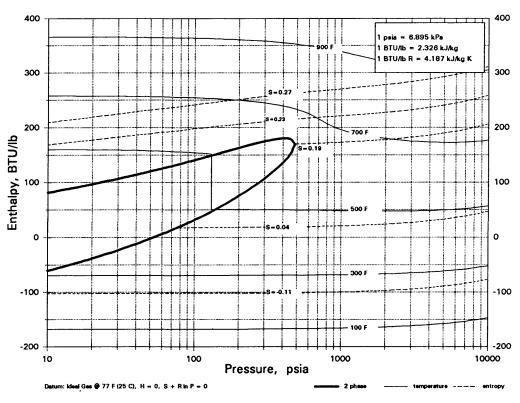




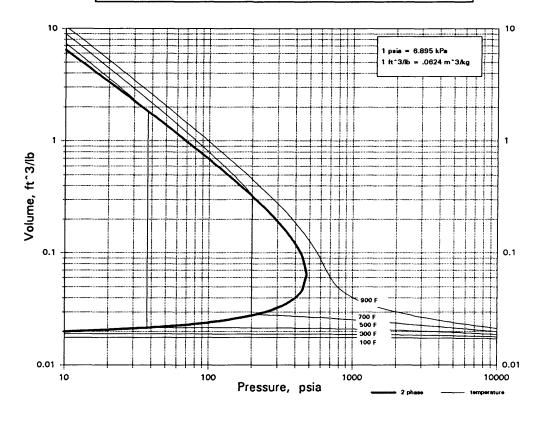


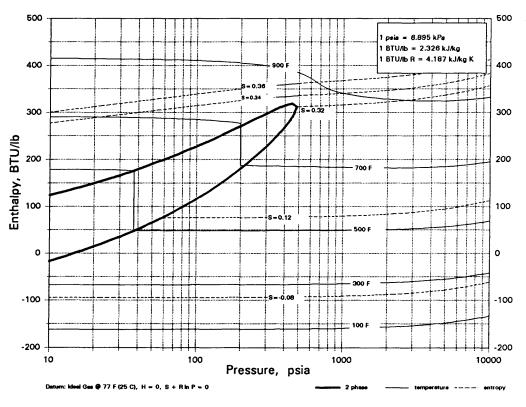




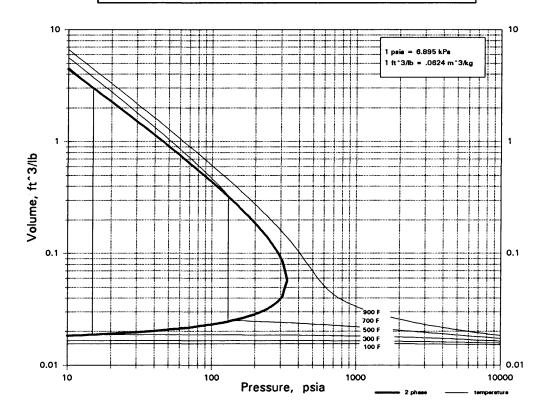


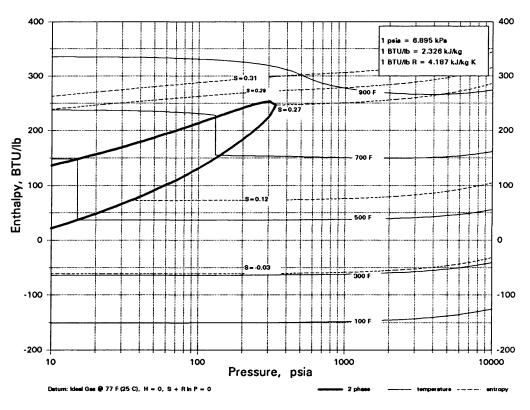


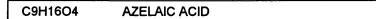


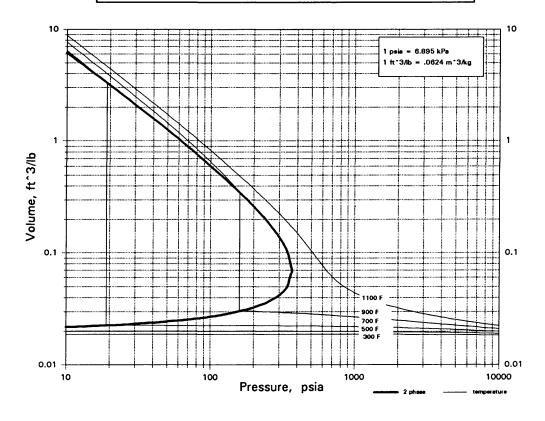


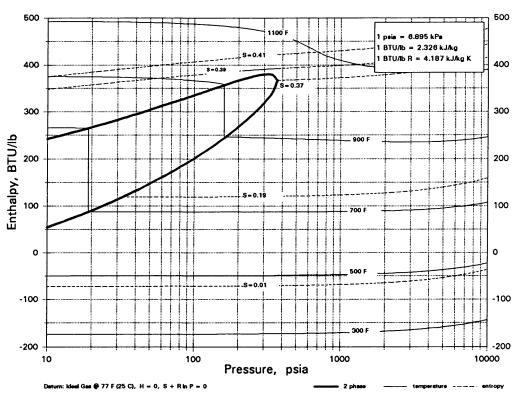




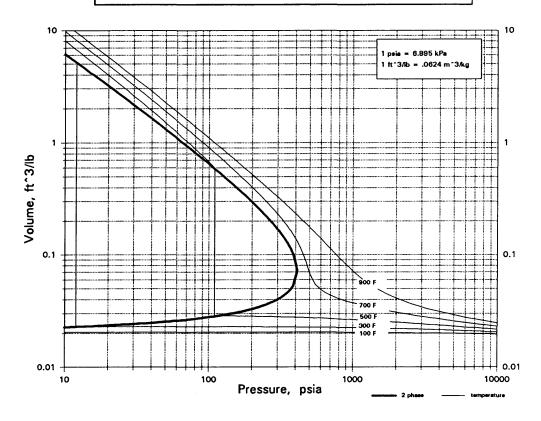


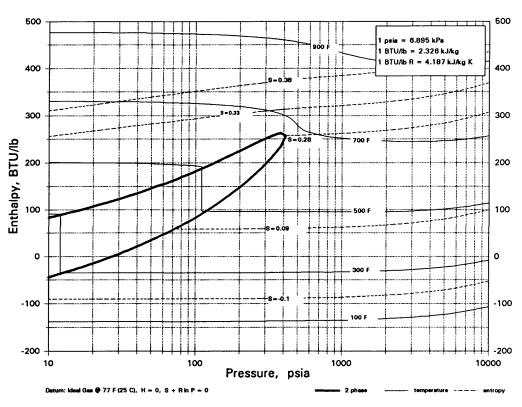




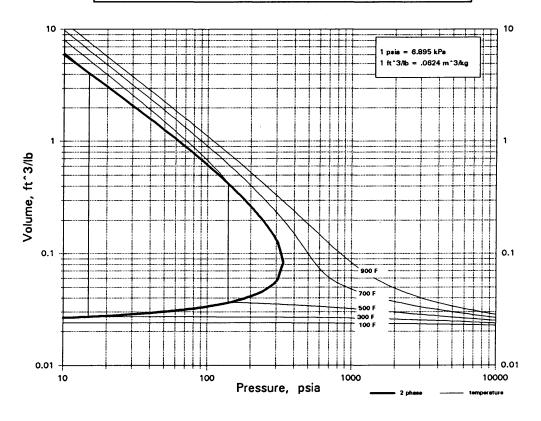


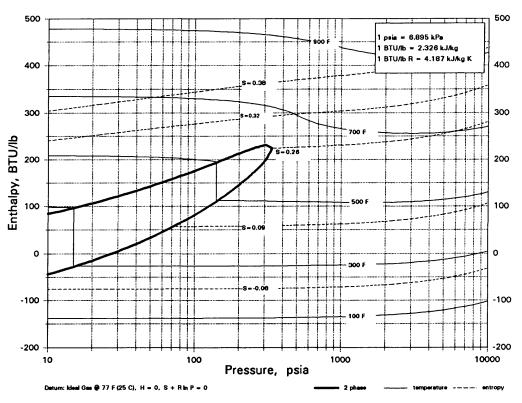




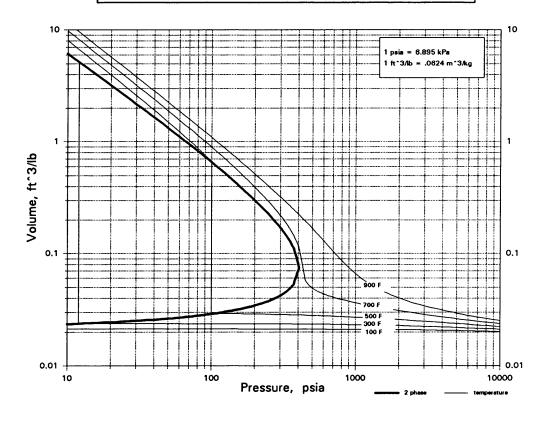


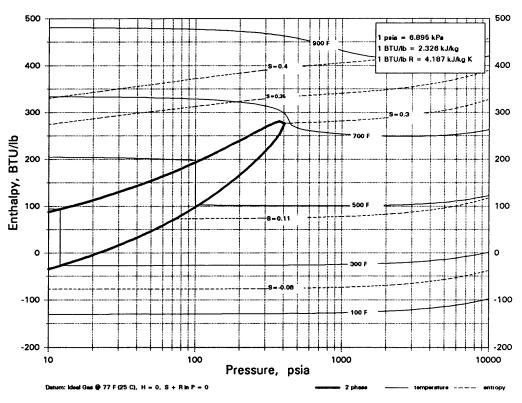


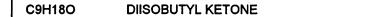


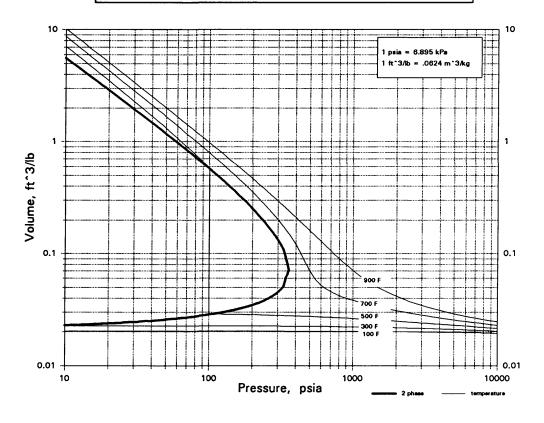


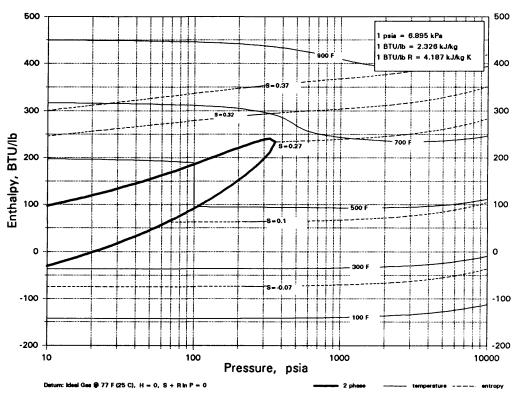




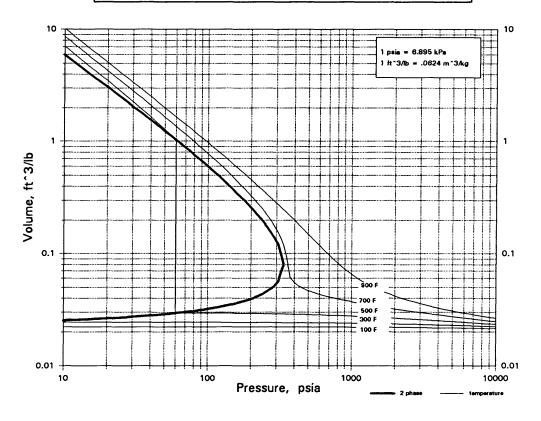


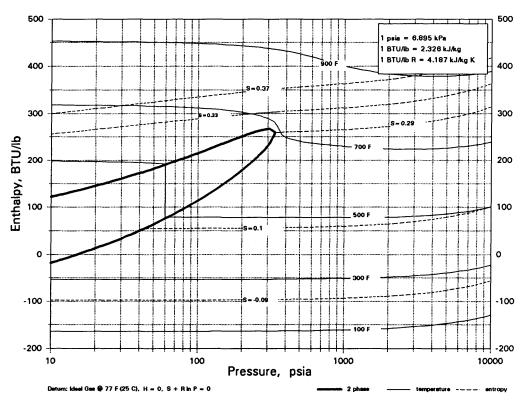




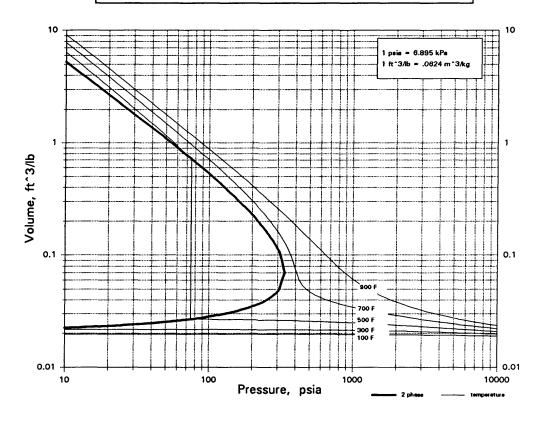


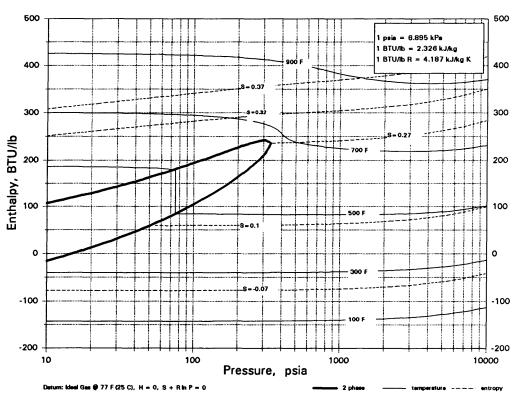




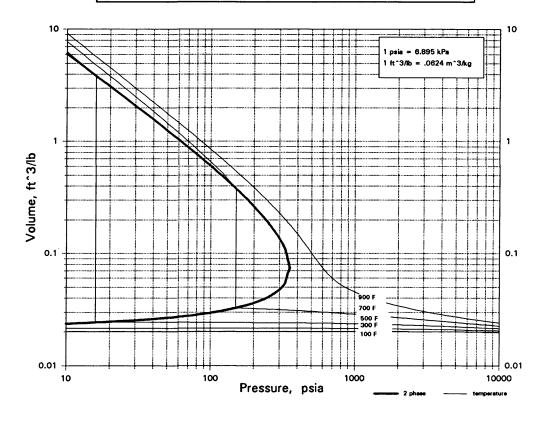


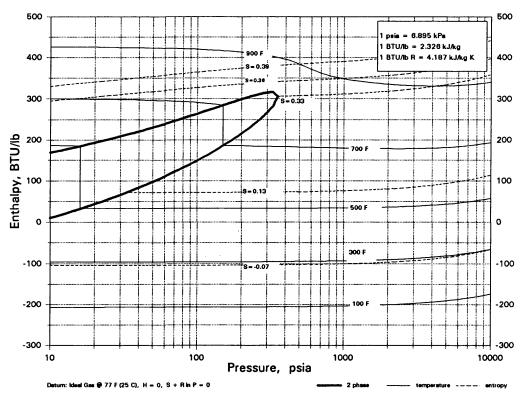




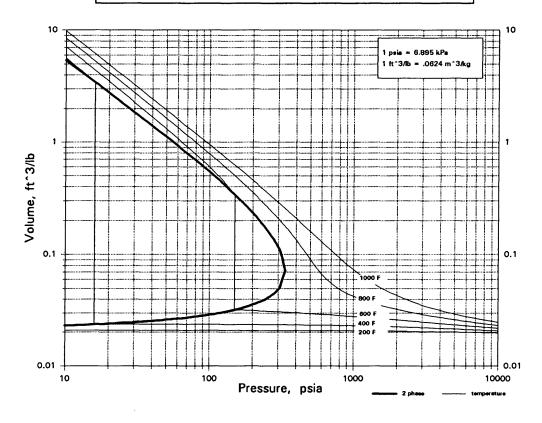


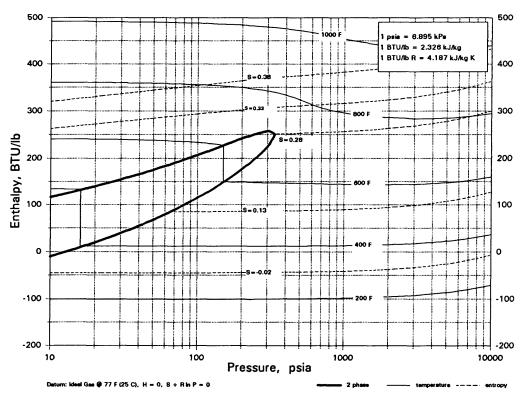




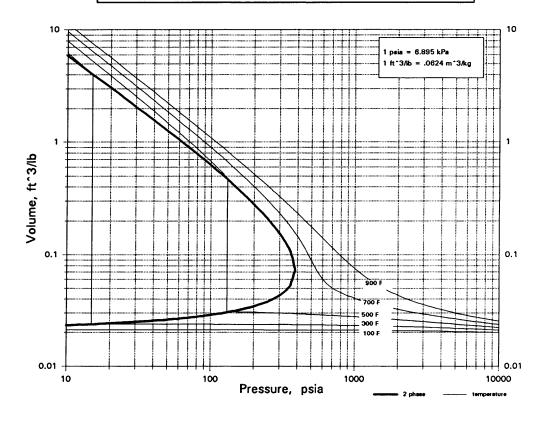


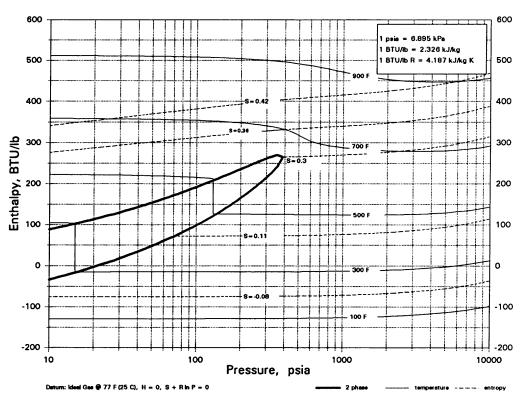




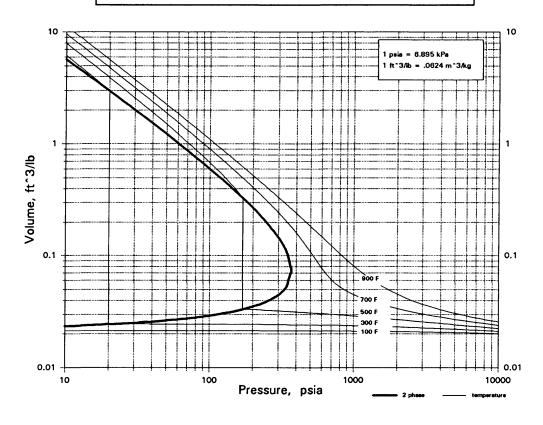


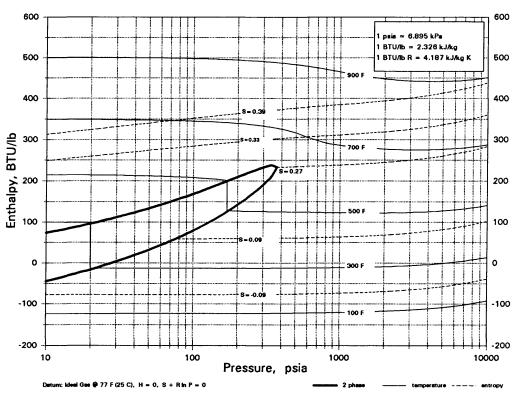




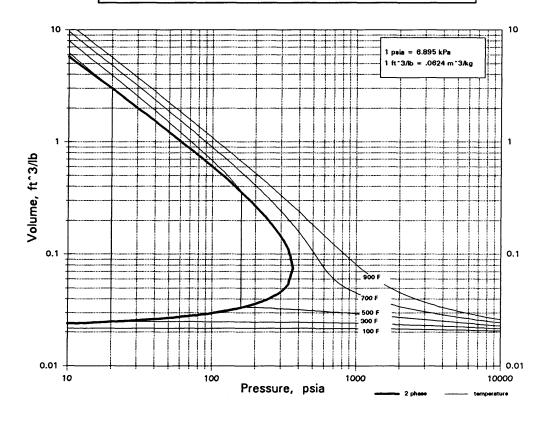


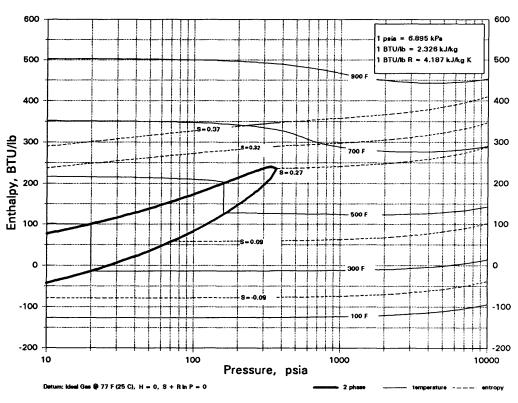


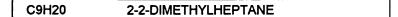


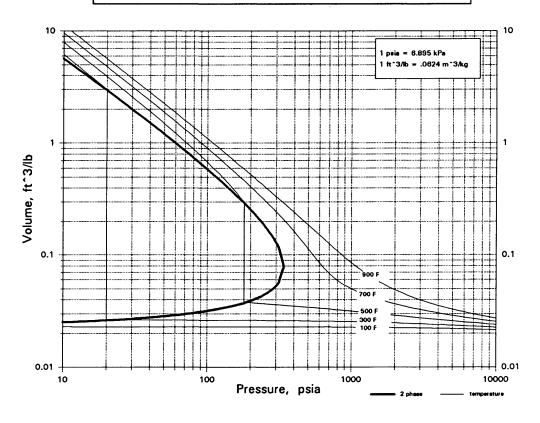


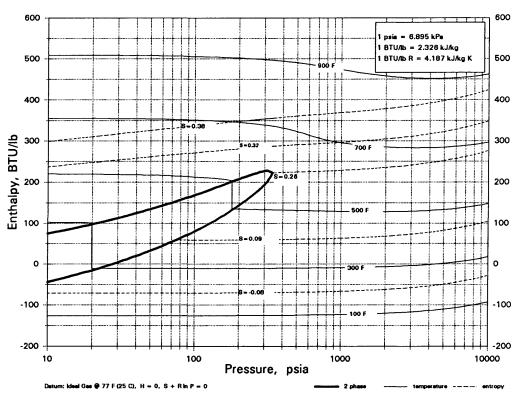




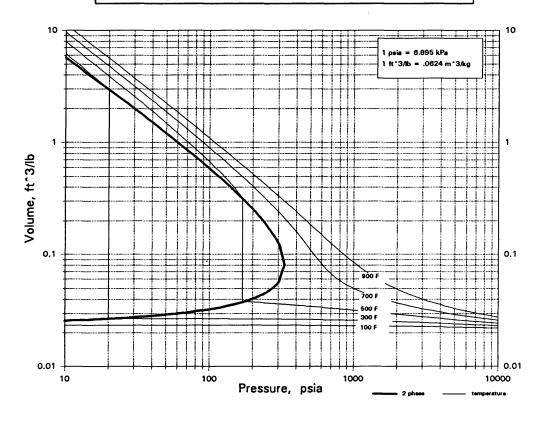


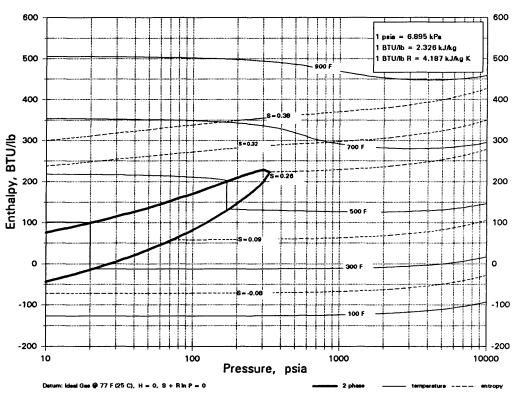




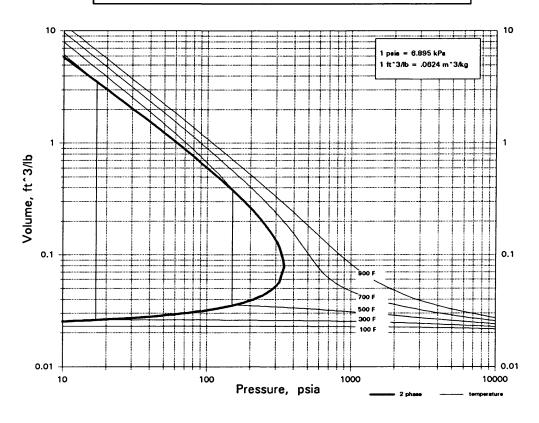


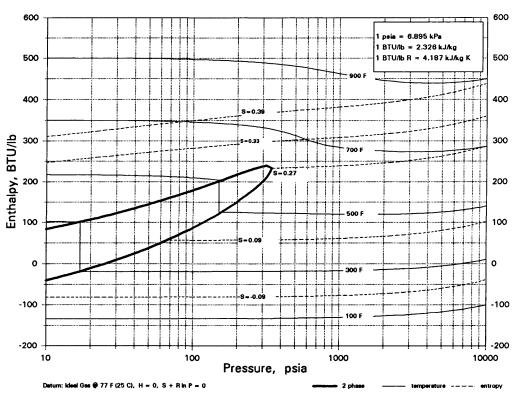




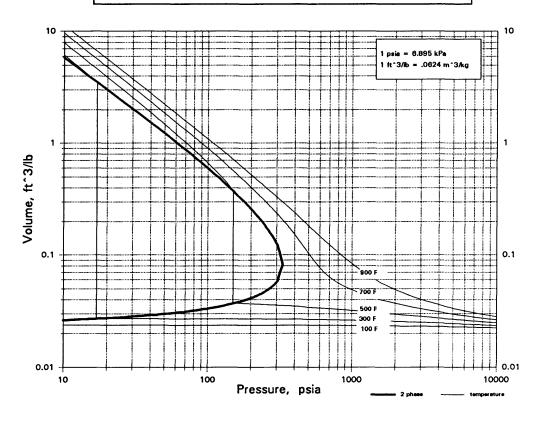


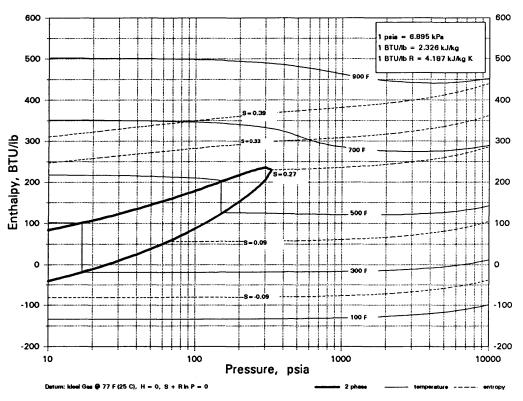




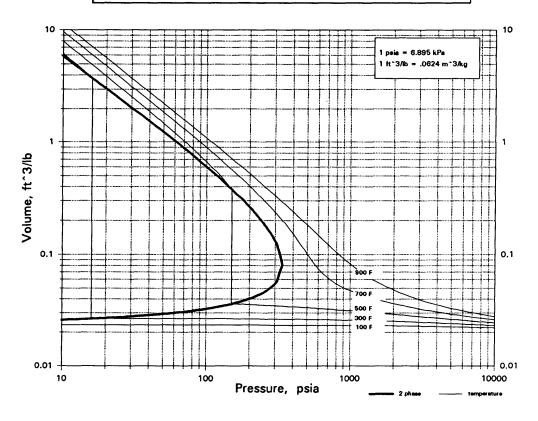


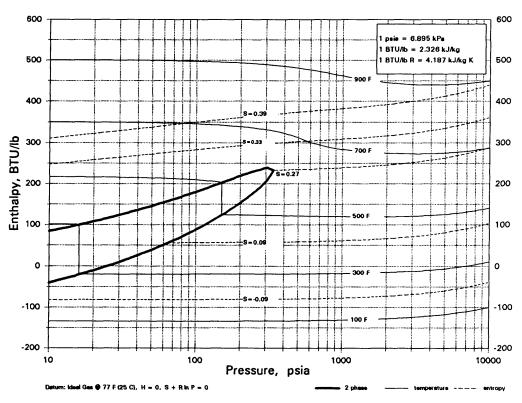




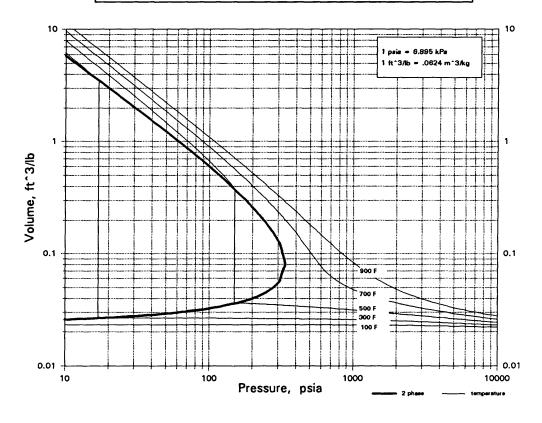


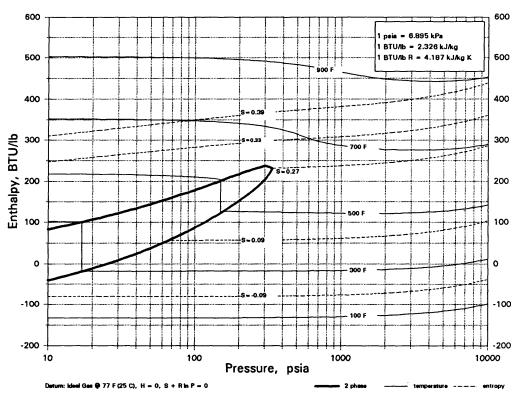




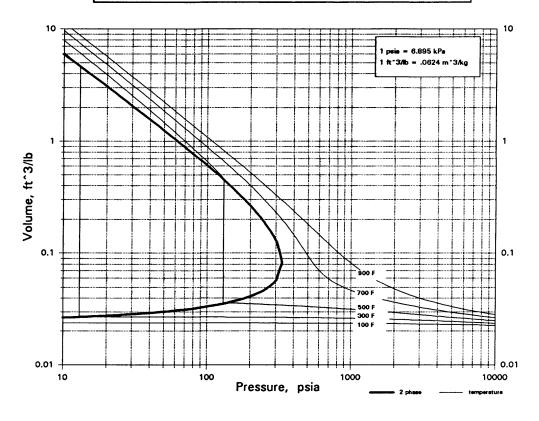


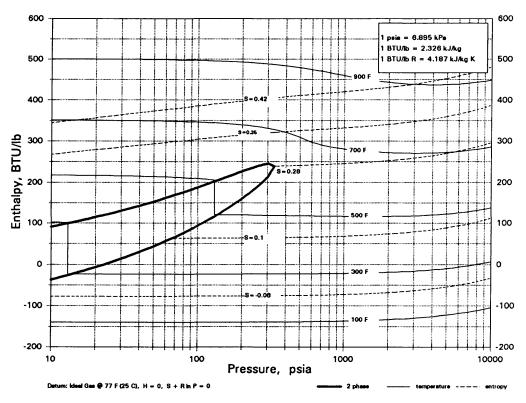




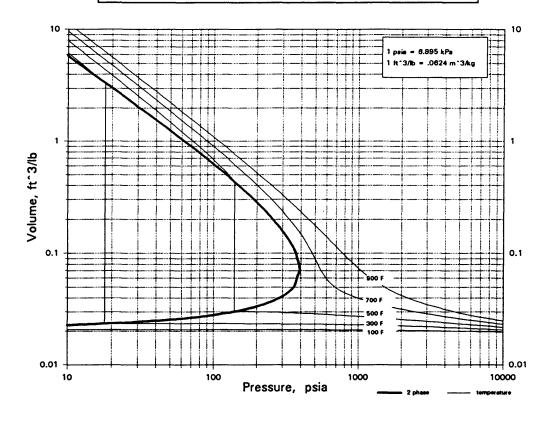


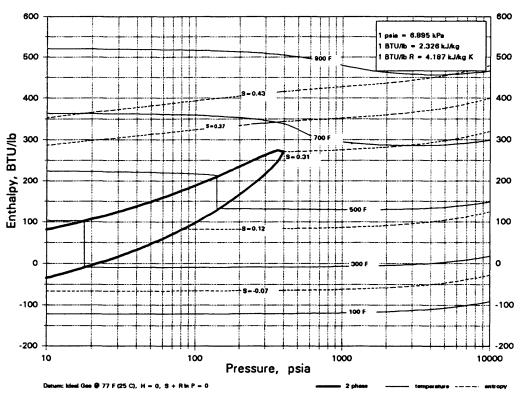




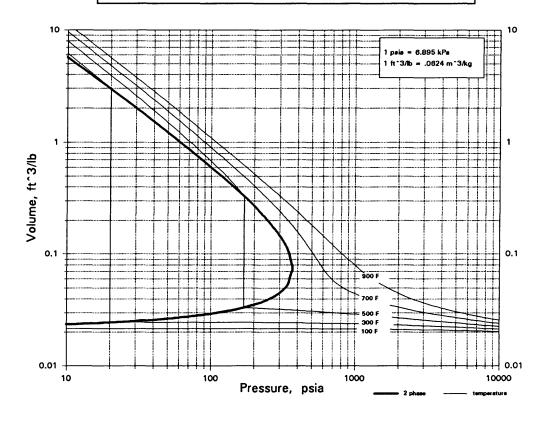


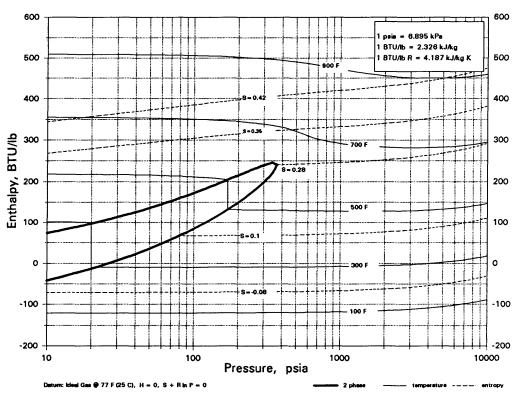




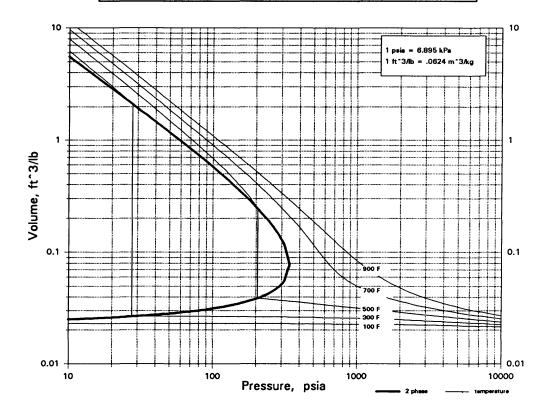


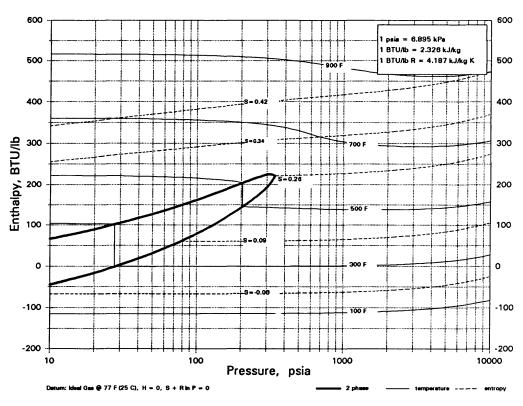




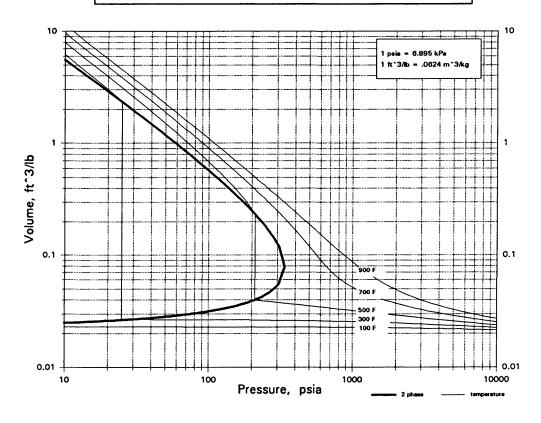


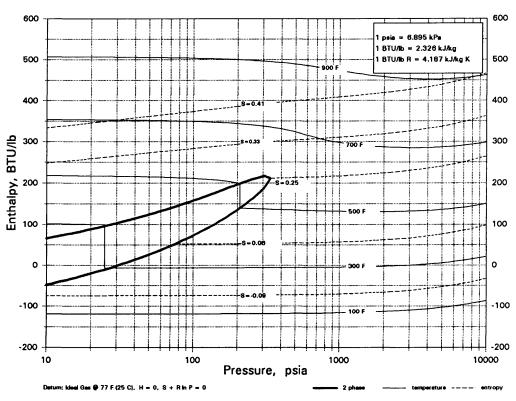




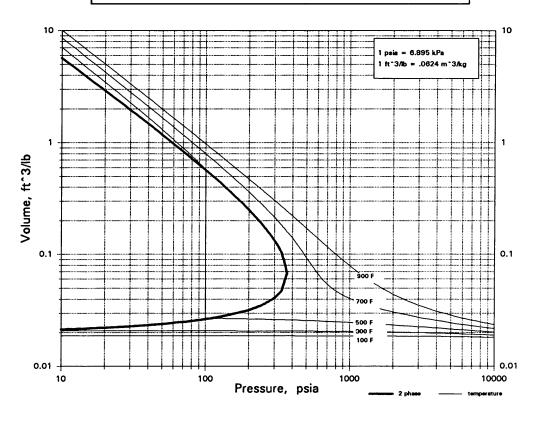


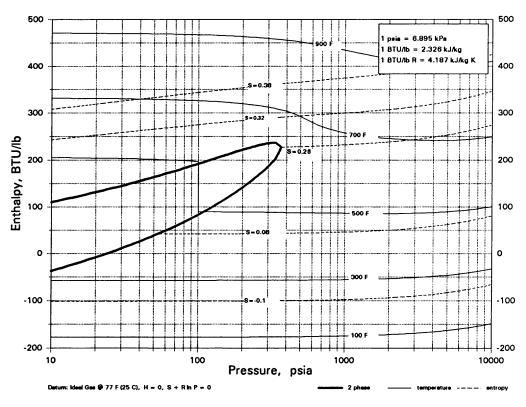




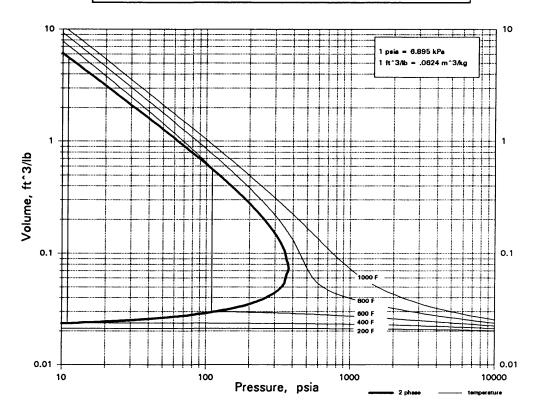


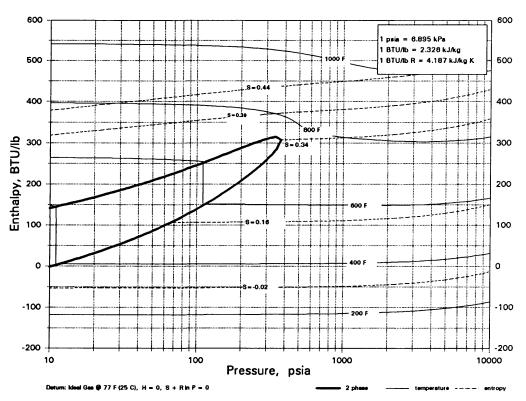




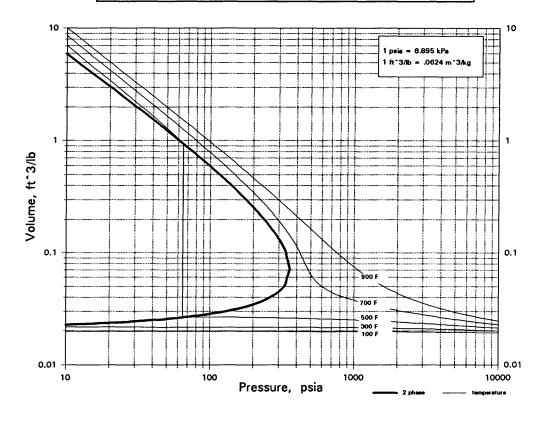


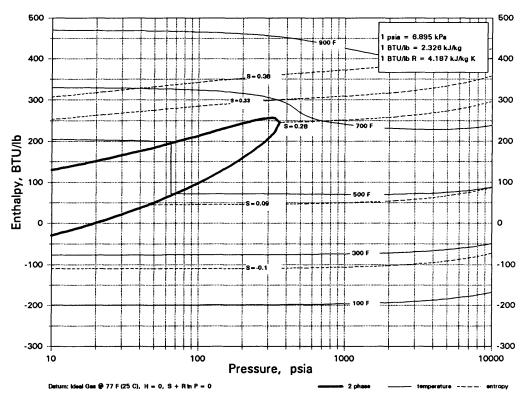




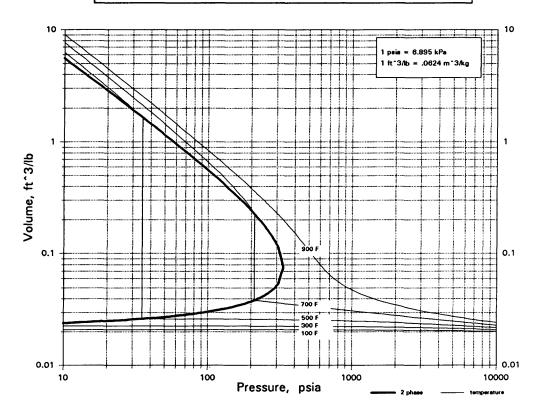


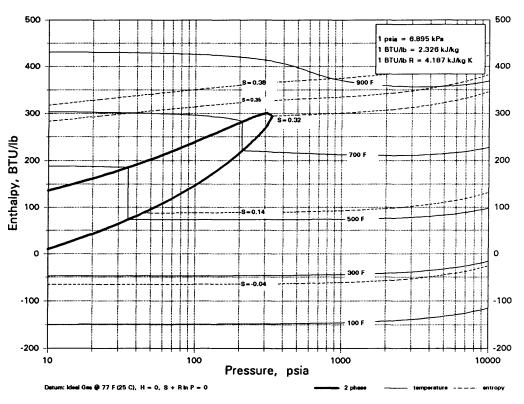


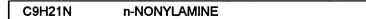


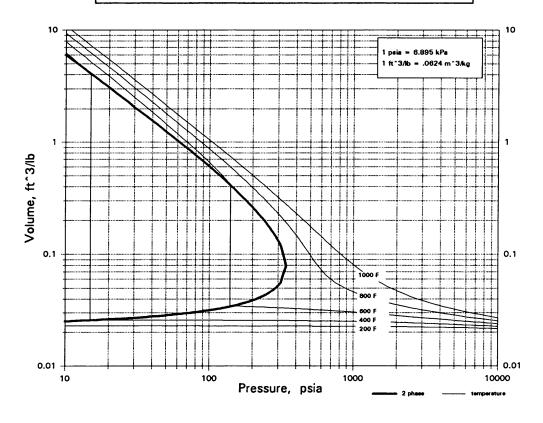


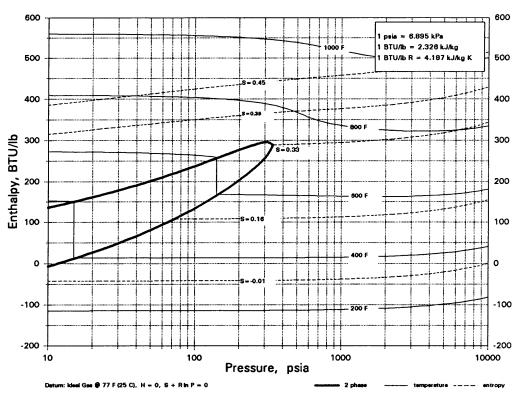




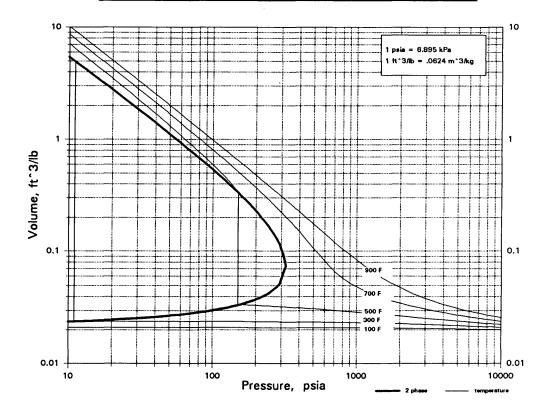


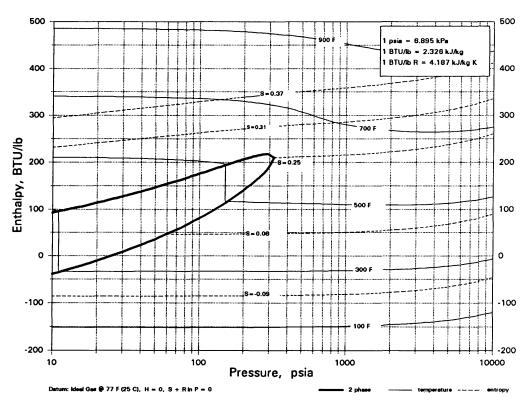




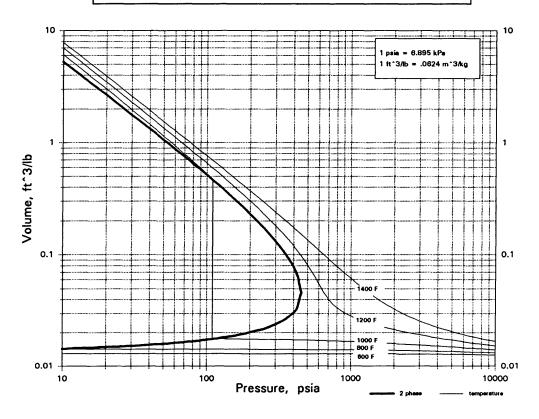


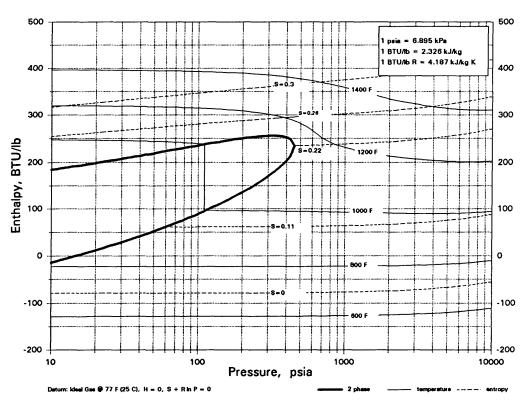




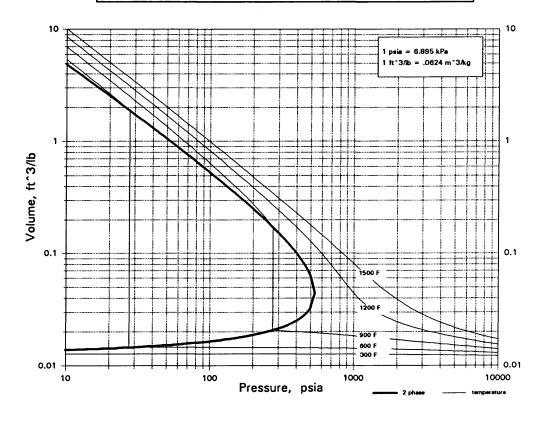


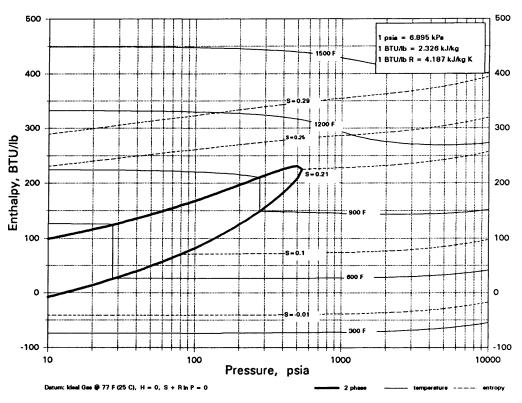




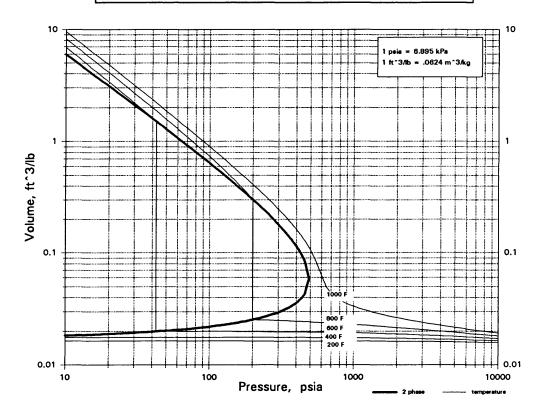


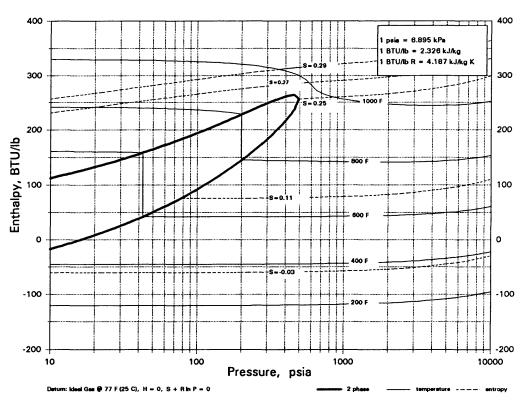




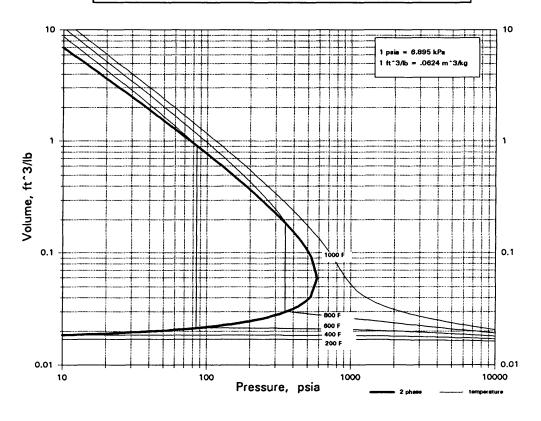


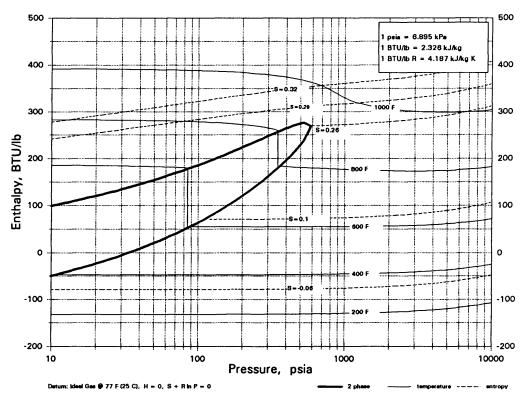




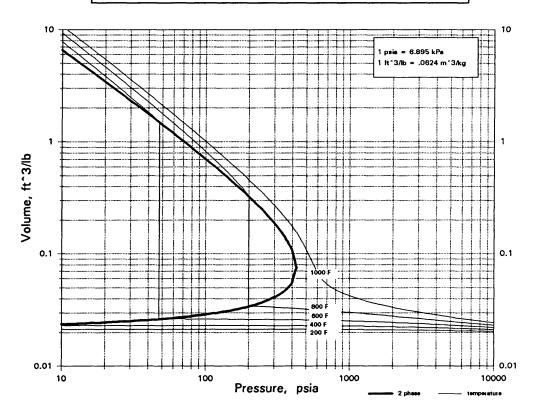


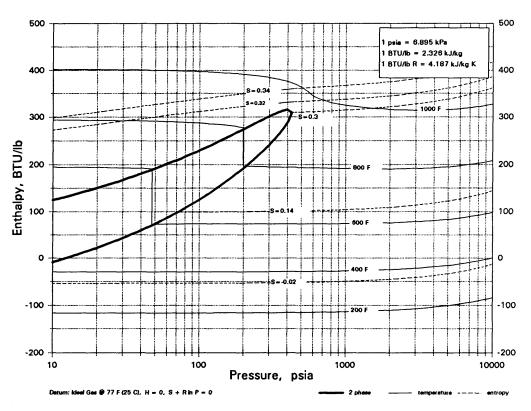




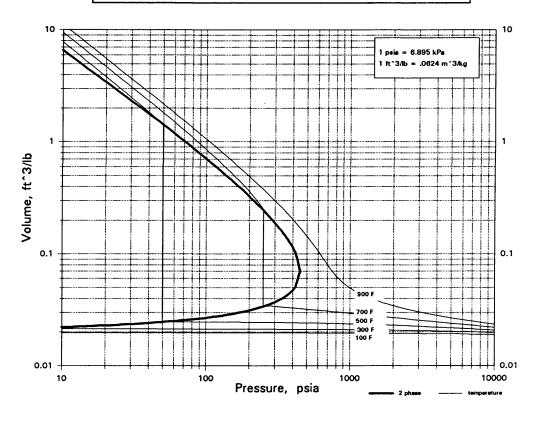


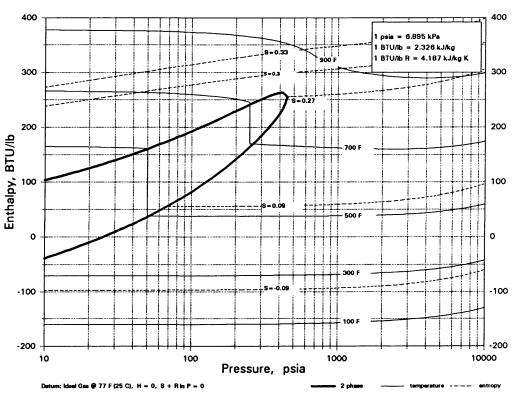




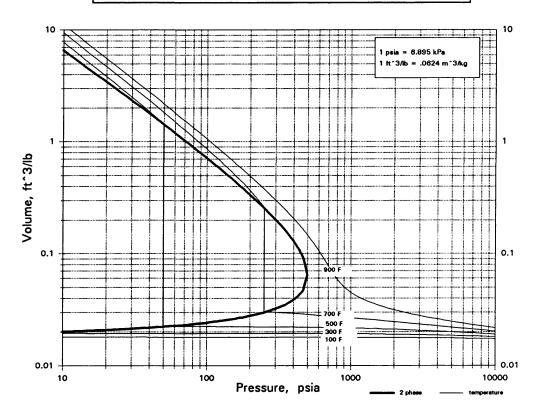


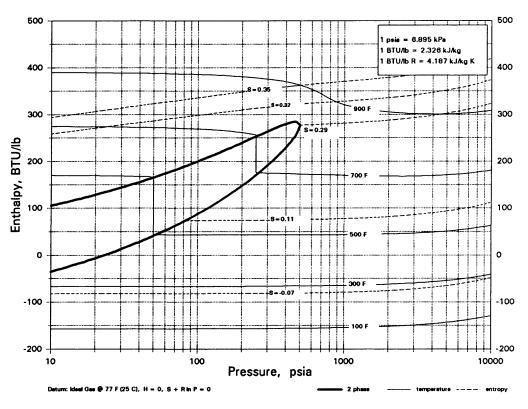




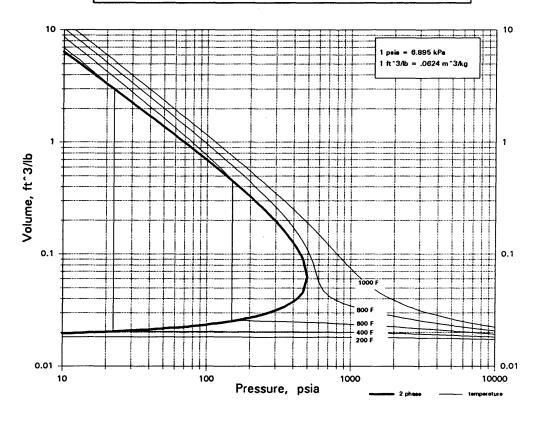


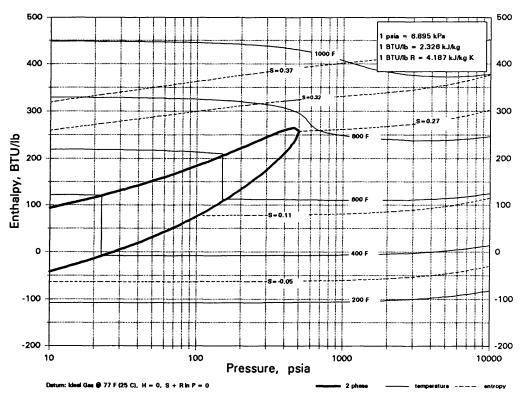




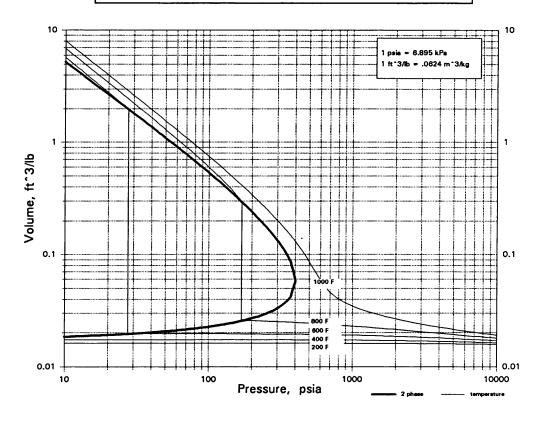


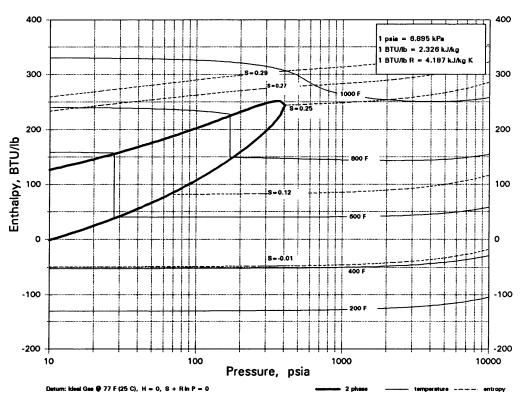




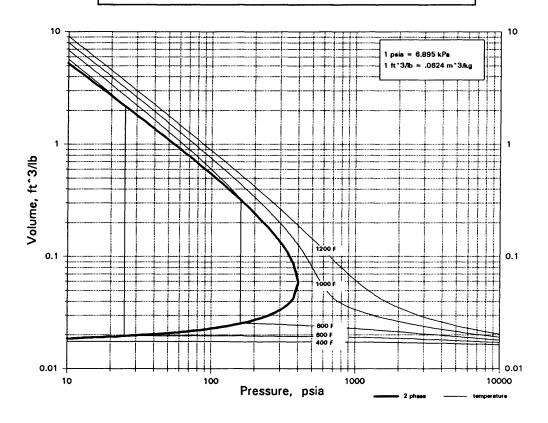


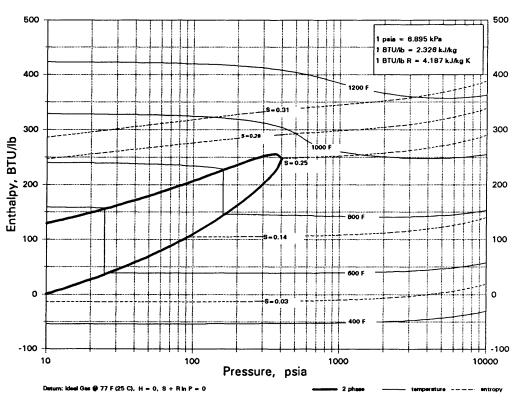




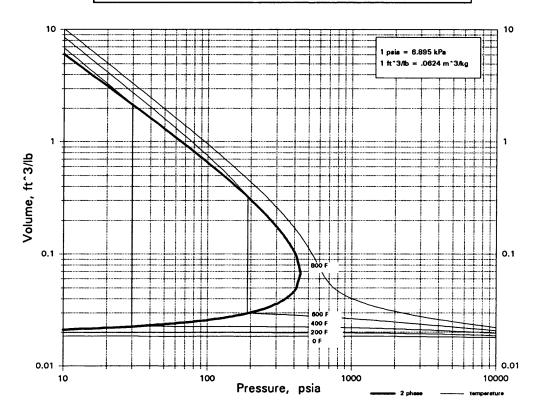


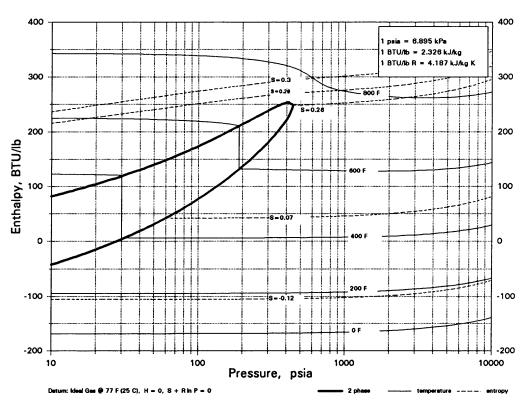
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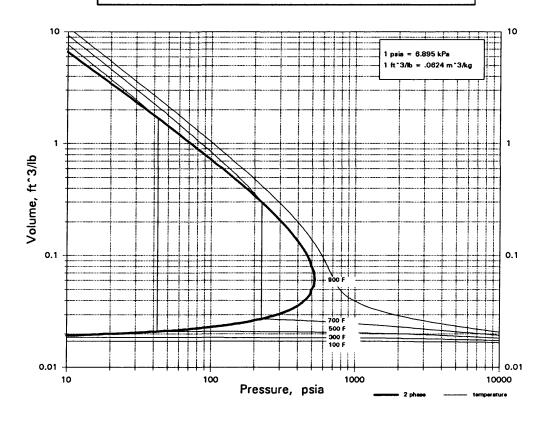


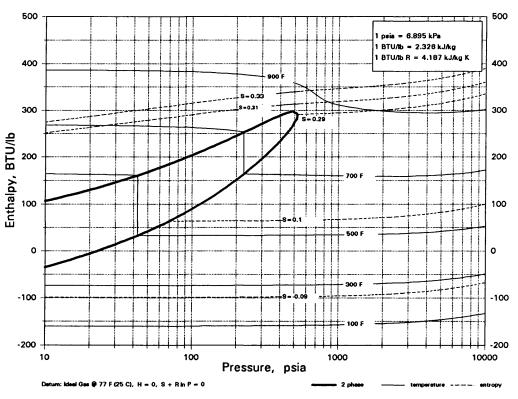




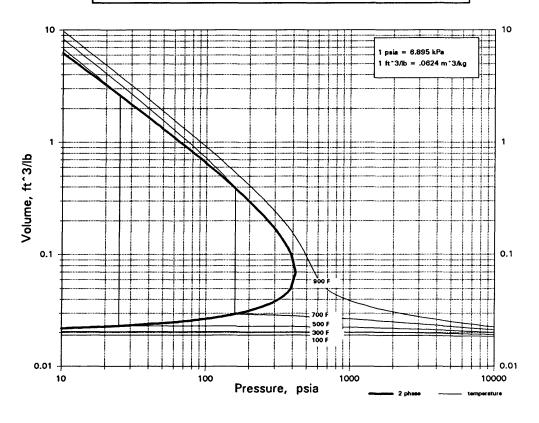


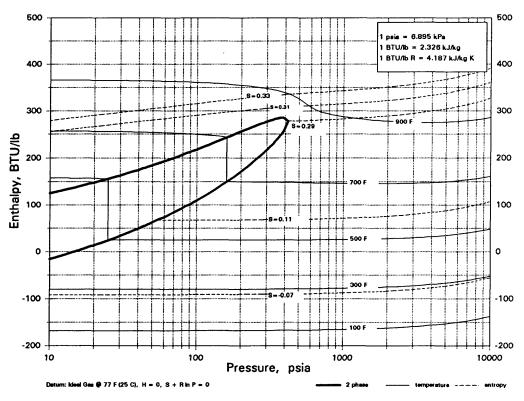
C10H12 1-2-3-4-TETRAHYDRONAPHTHALENE



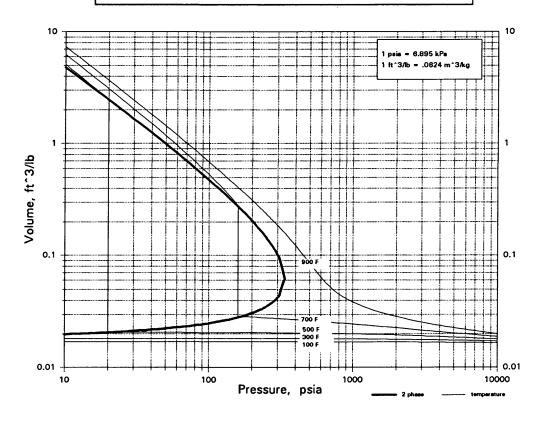


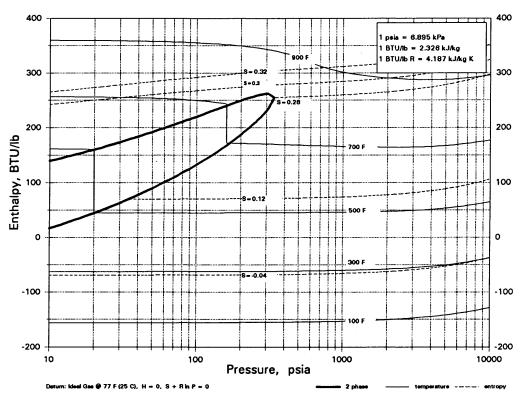




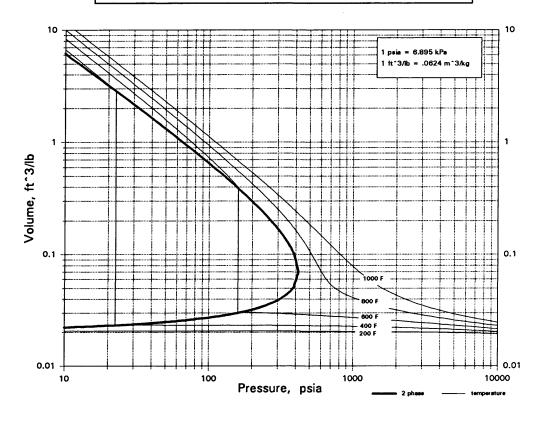


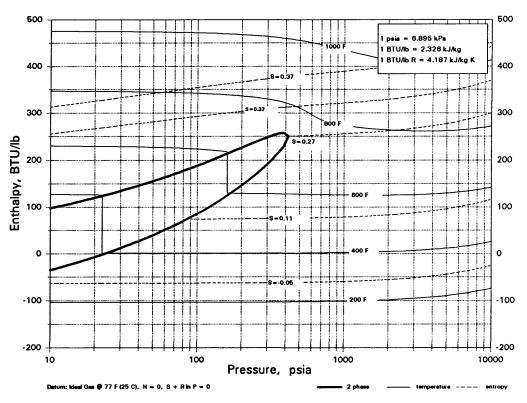
C10H12O4 DIALLYL MALEATE



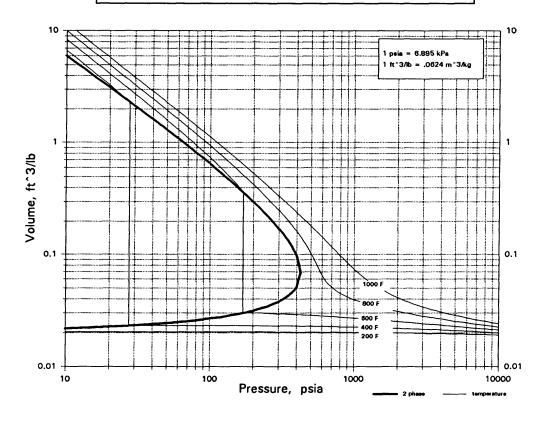


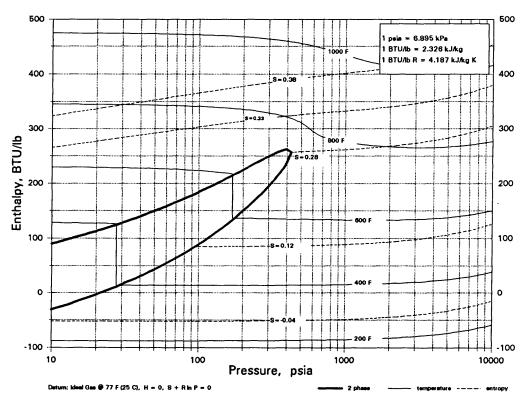




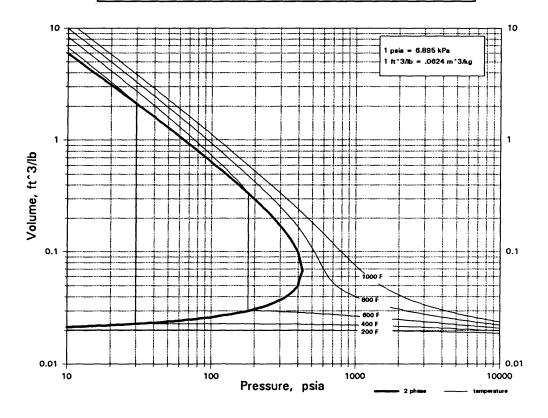


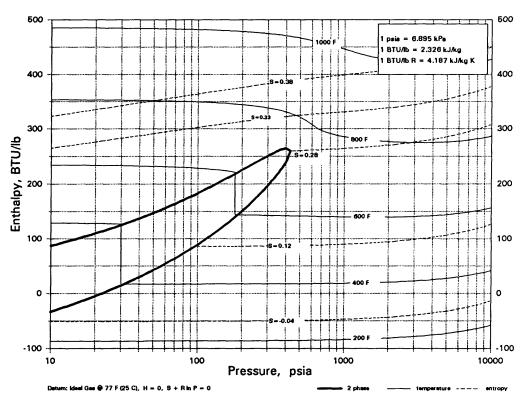




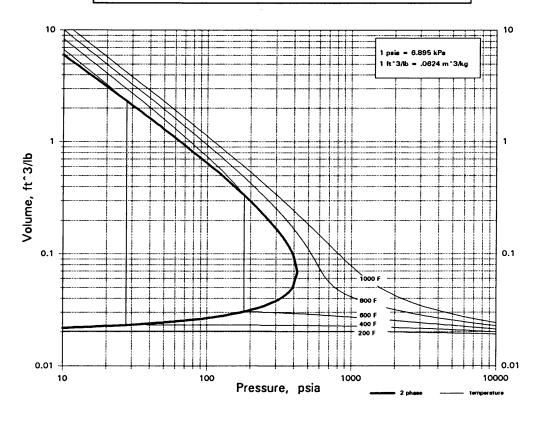


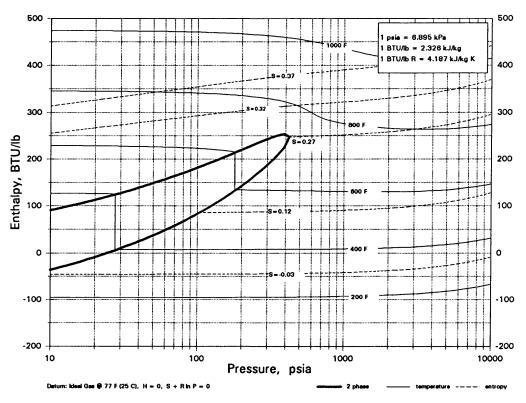


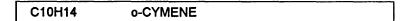


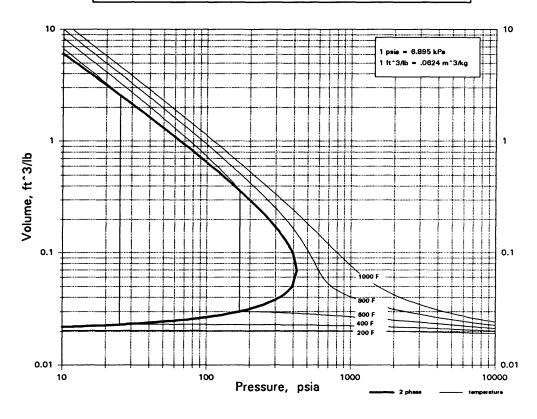


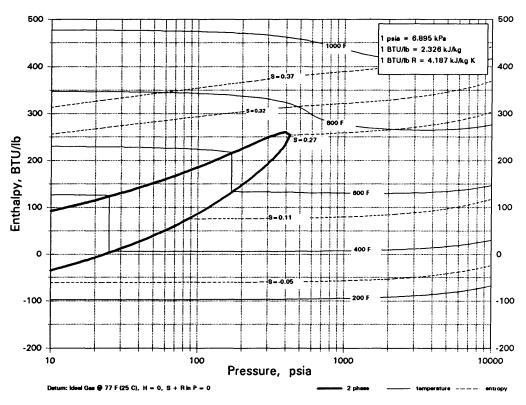




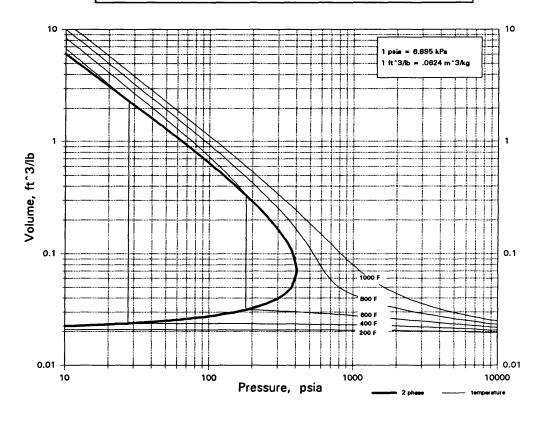


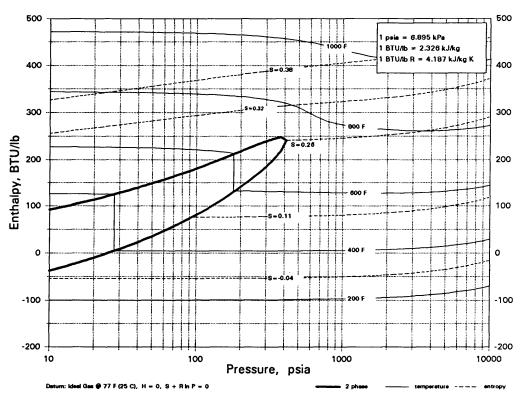


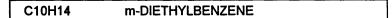


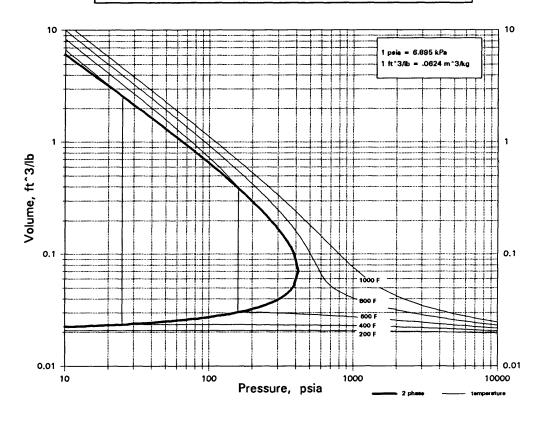


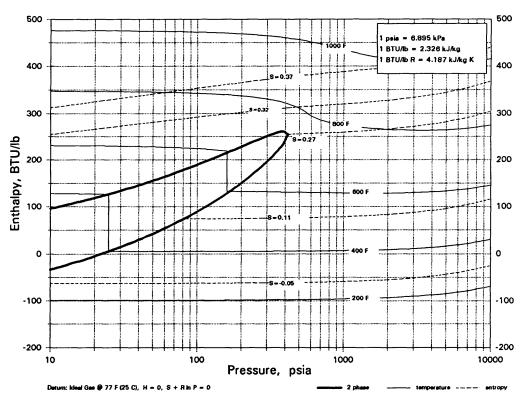




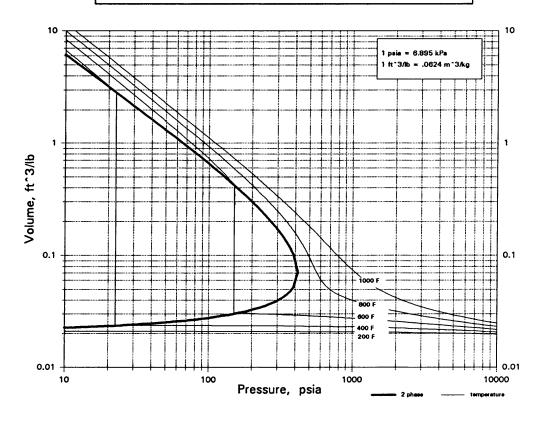


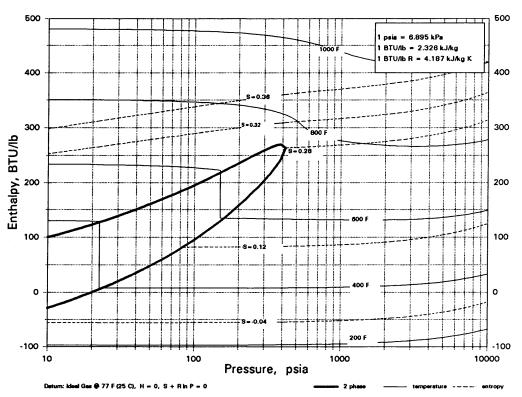




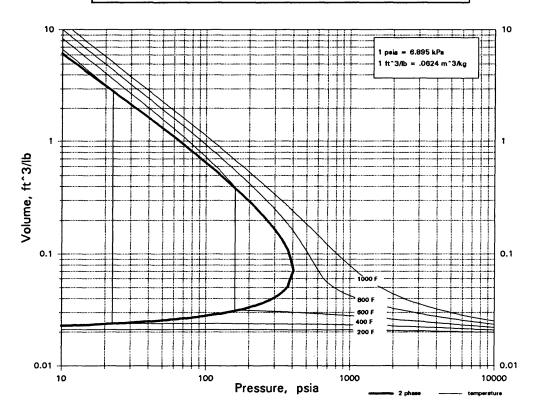


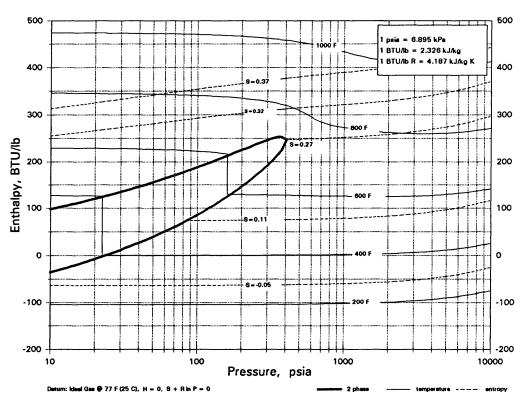


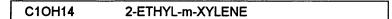


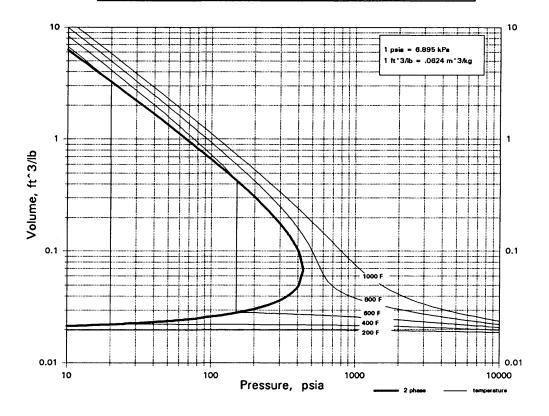


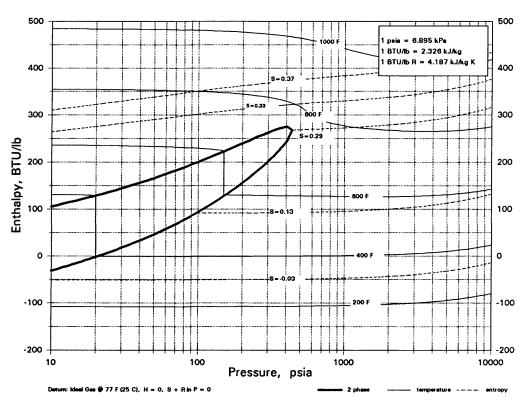


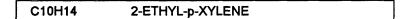


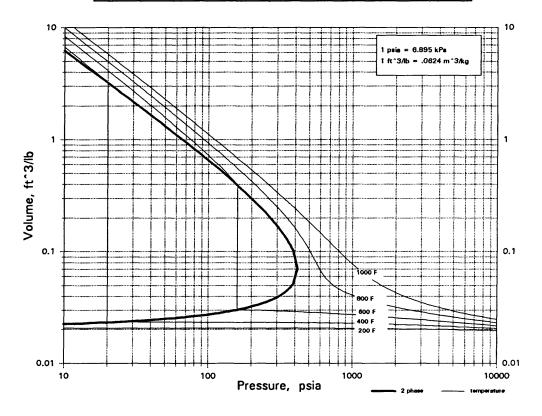


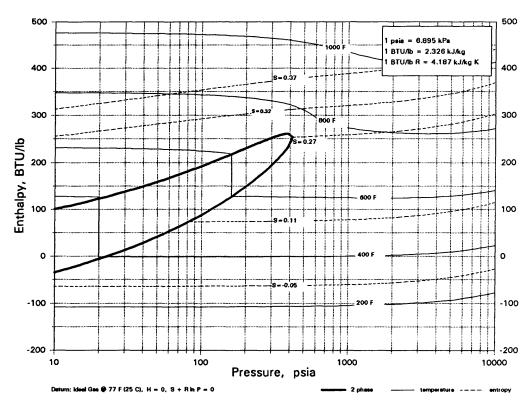


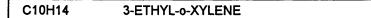


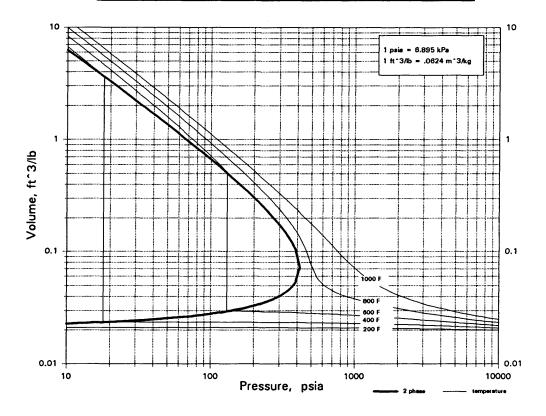


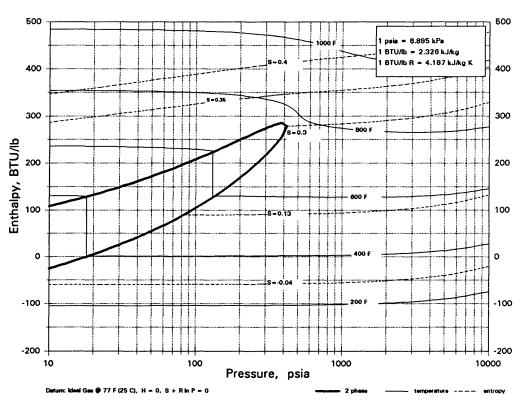


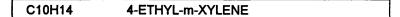


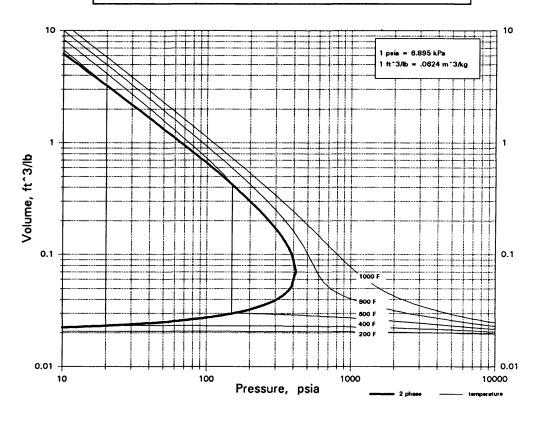


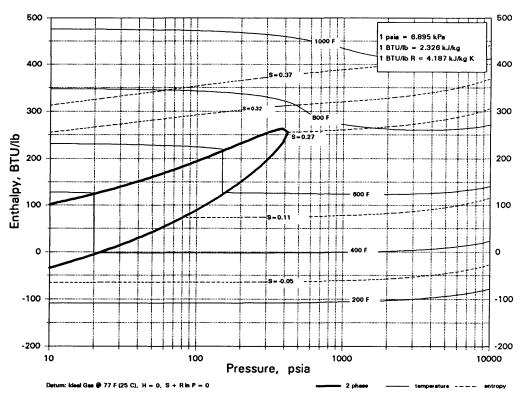


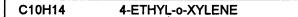


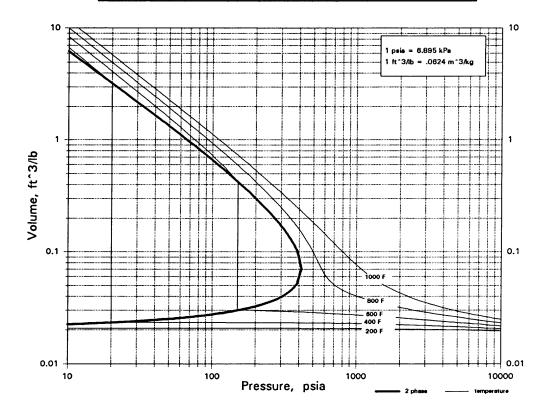


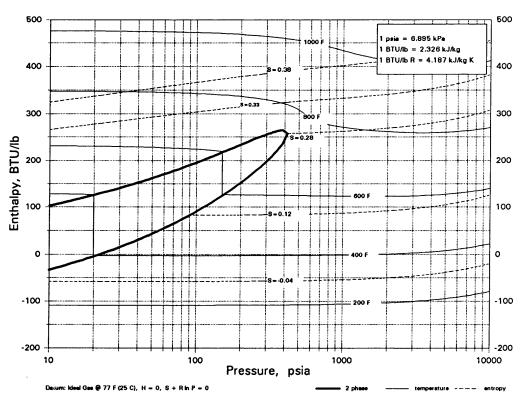


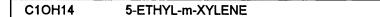


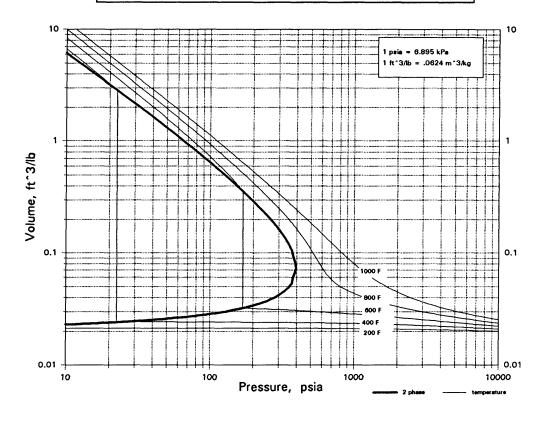


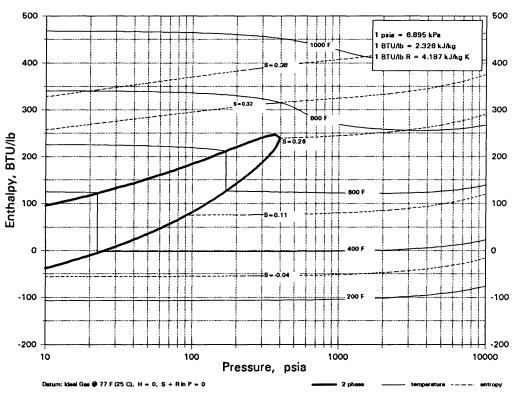




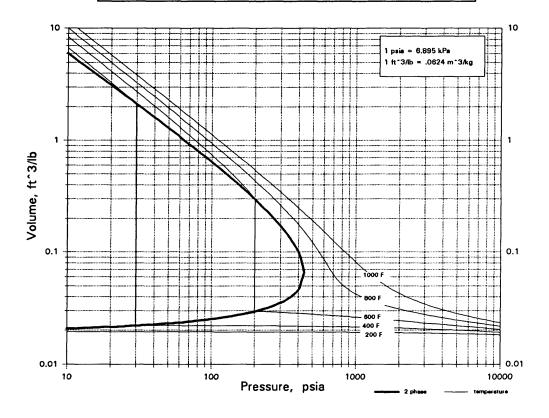


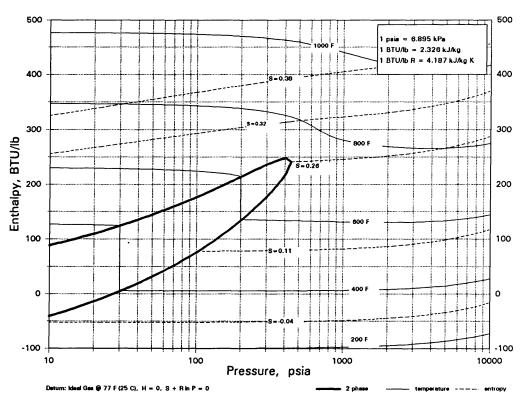




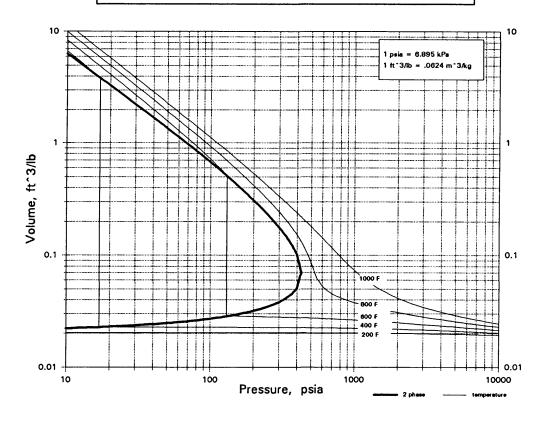


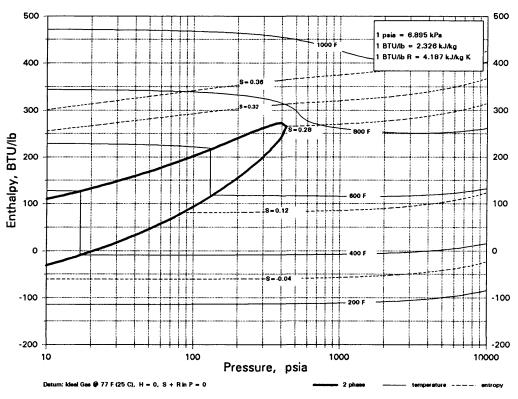




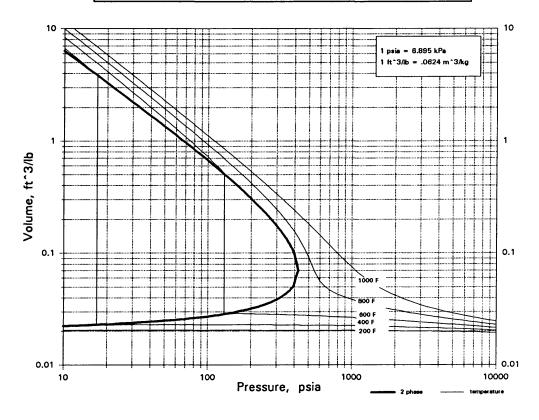


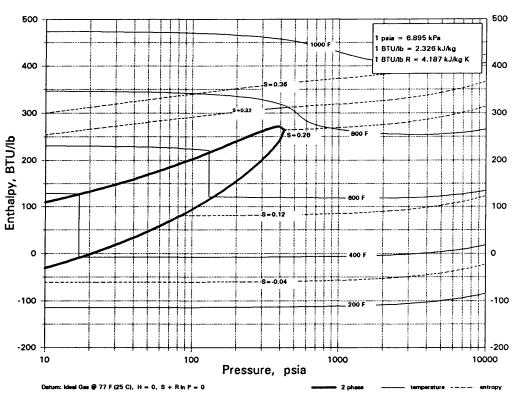




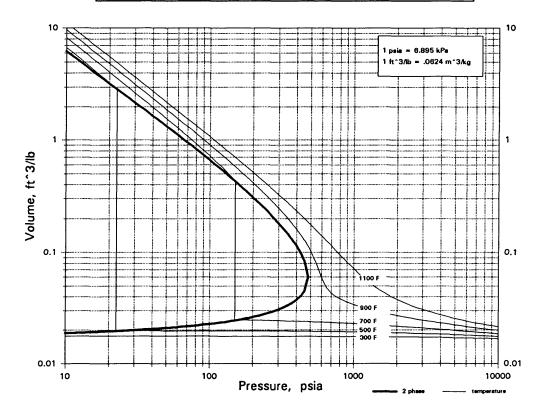


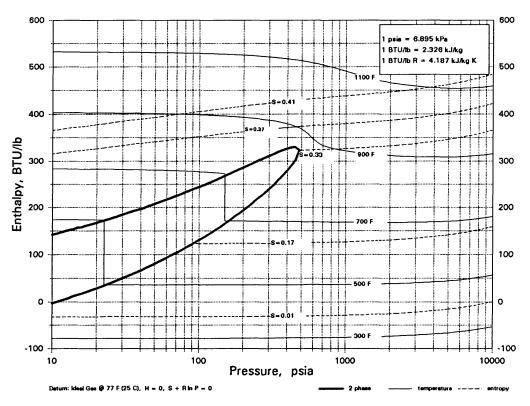




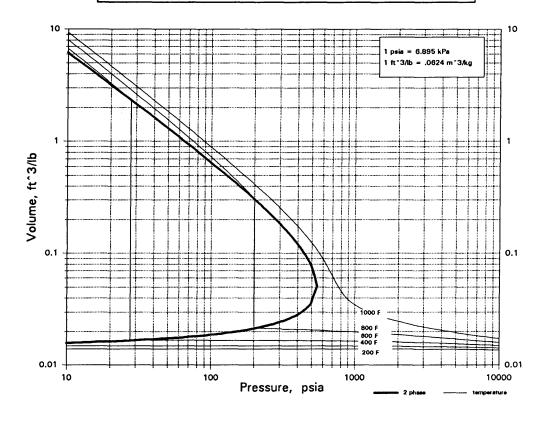


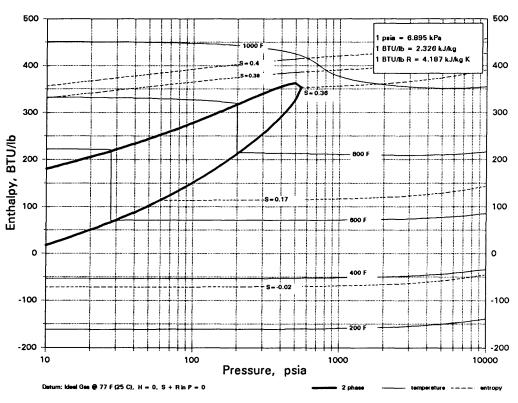




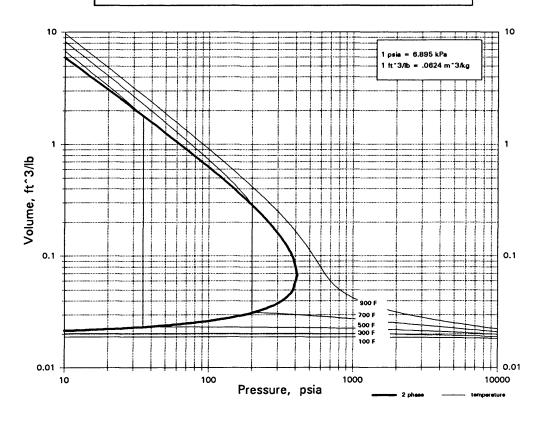


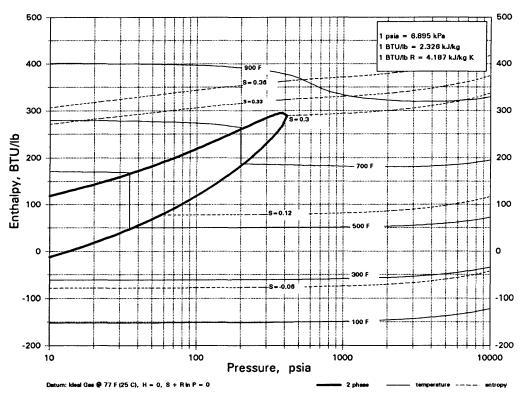
C10H14O2 p-tert-BUTYLCATECHOL



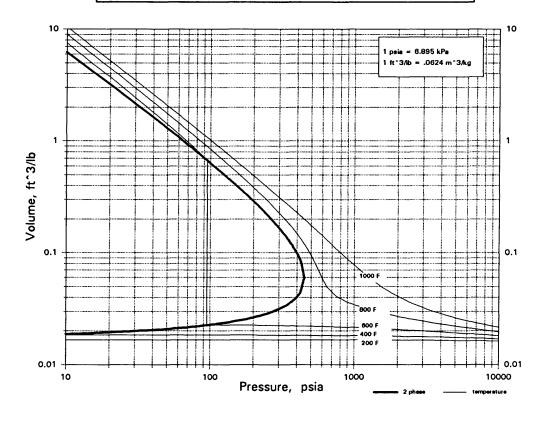


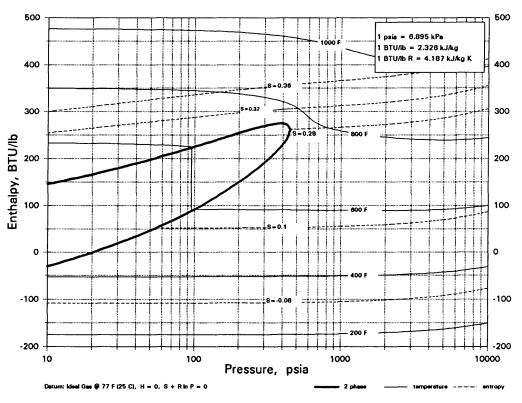




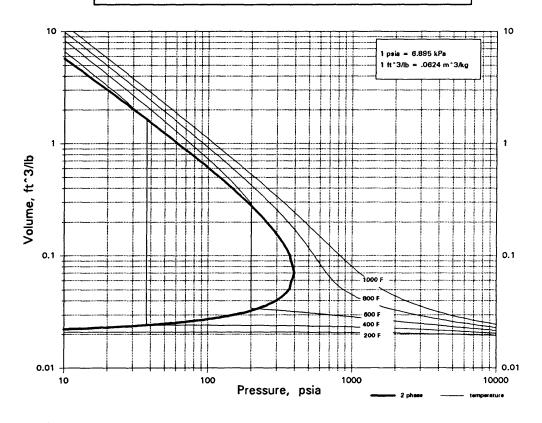


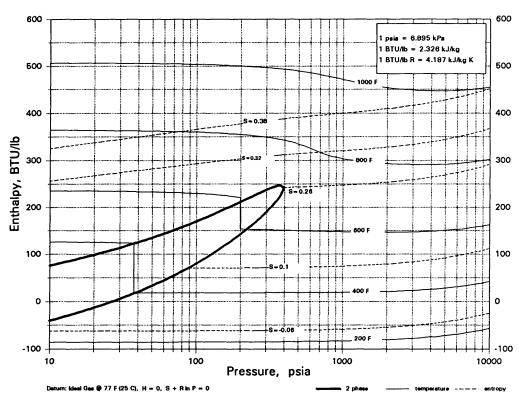




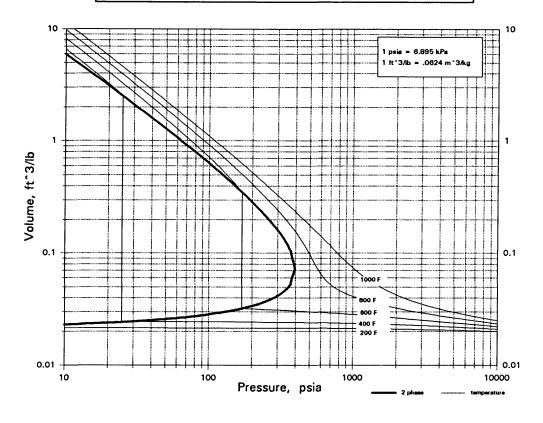


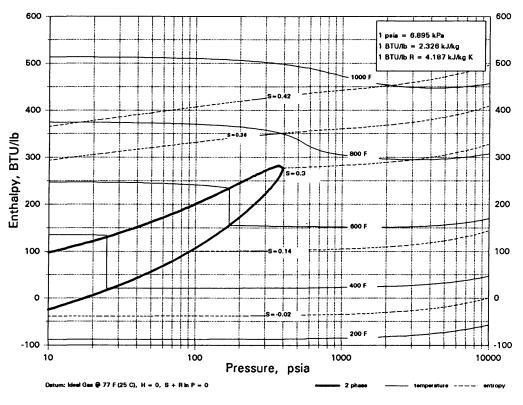


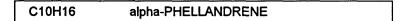


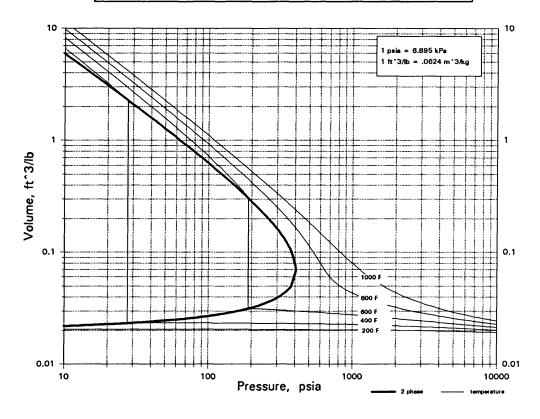


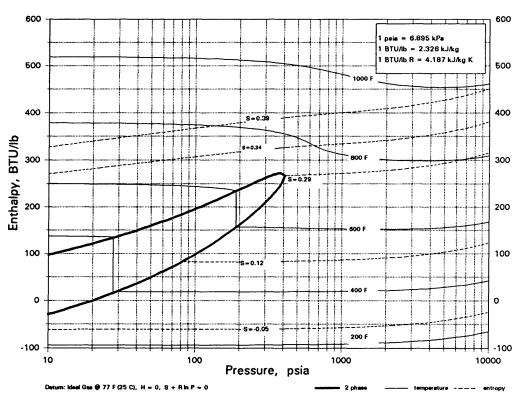




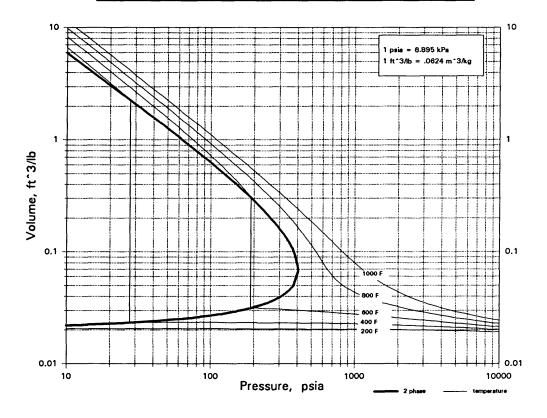


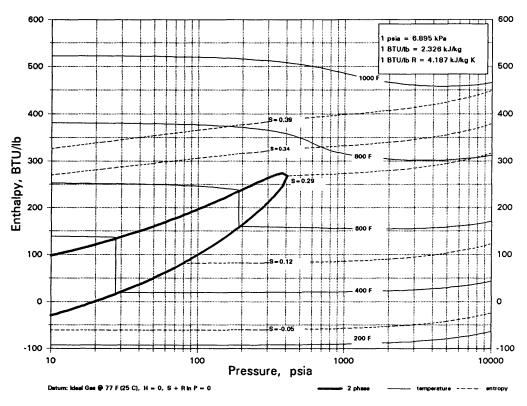




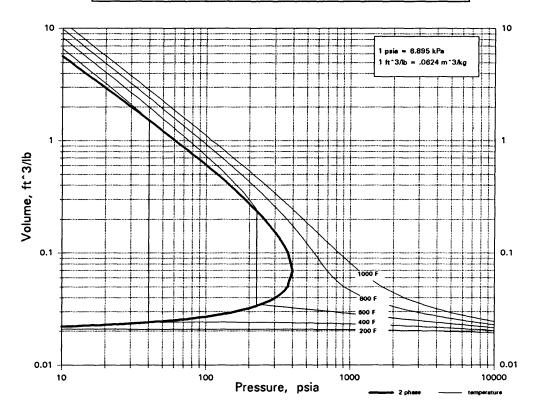


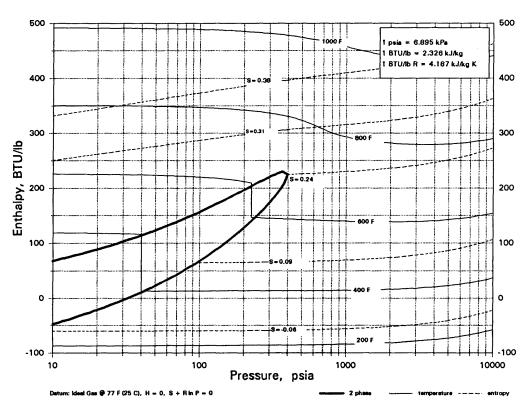




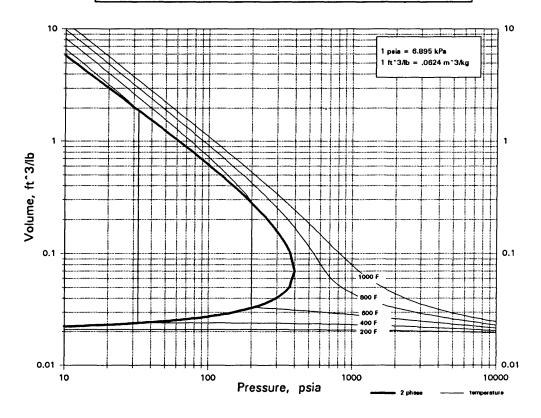


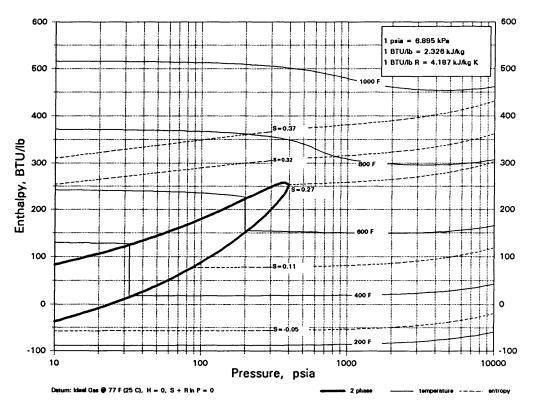




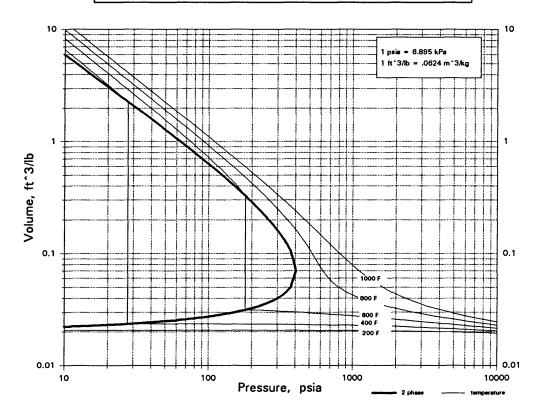


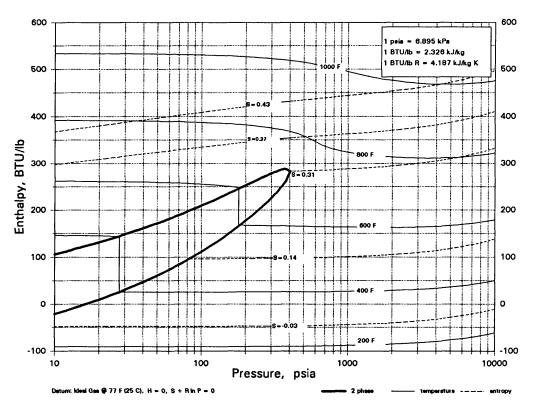




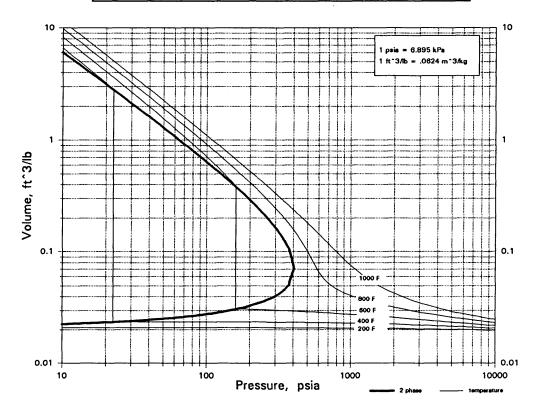


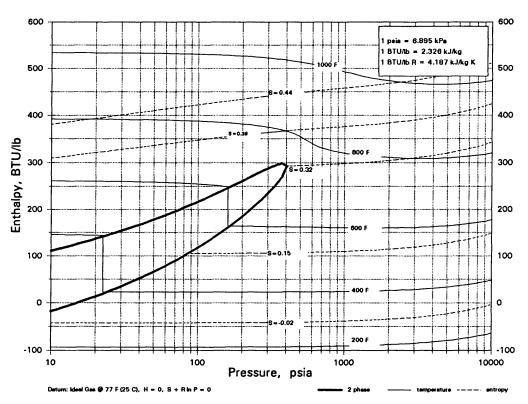




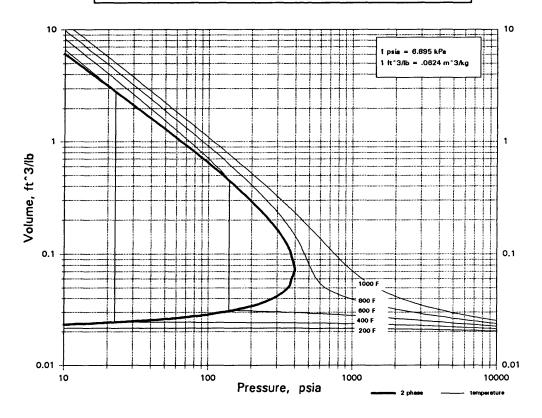


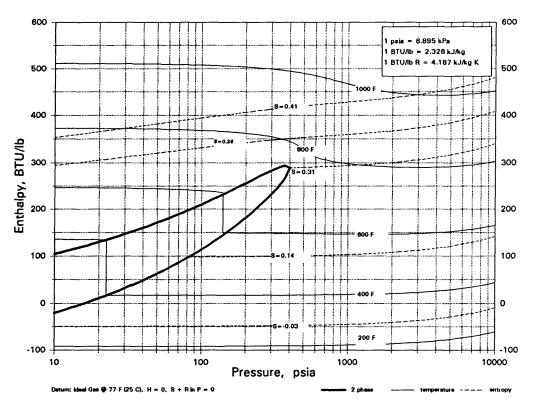


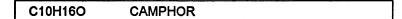


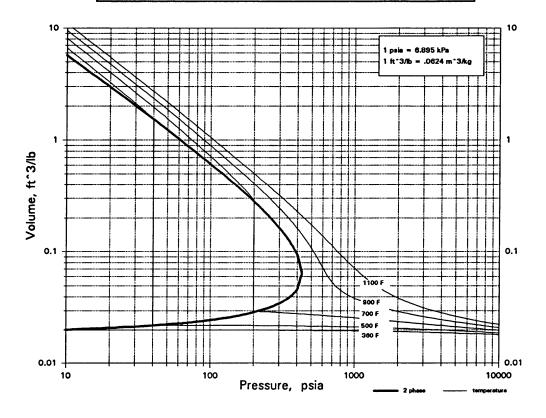


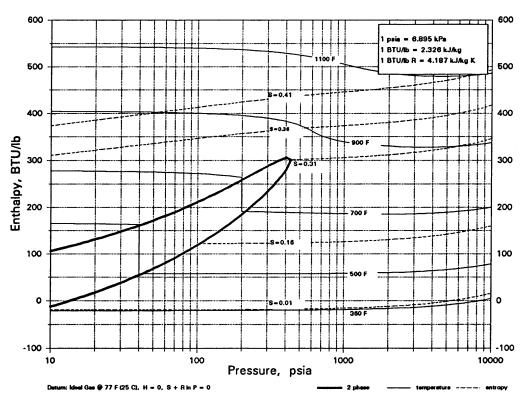




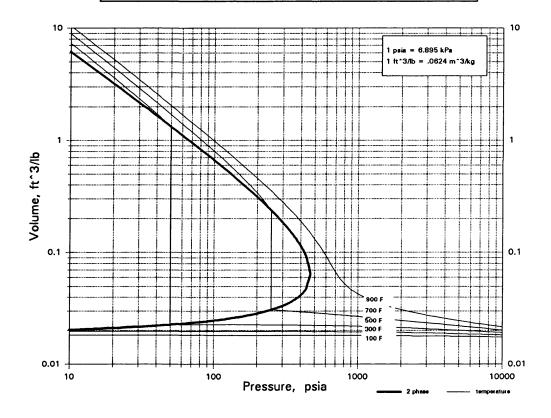


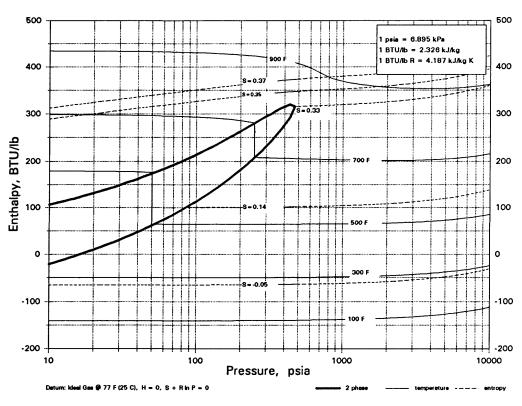




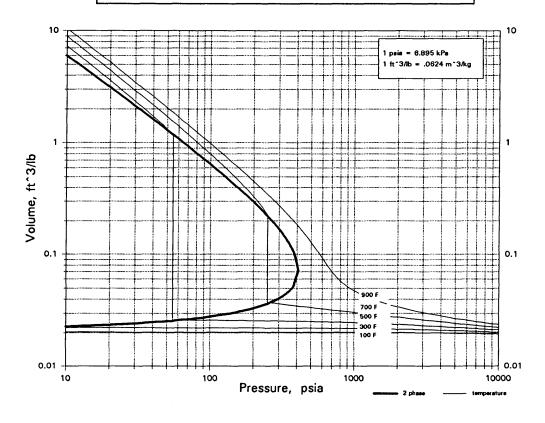


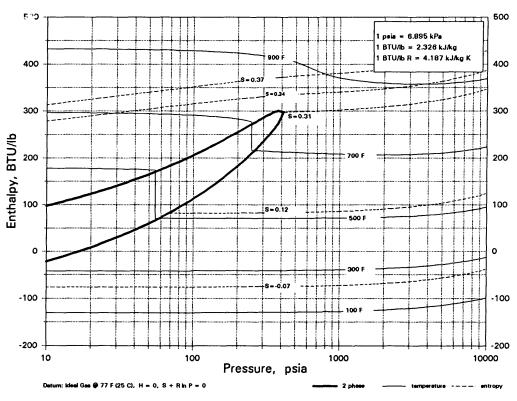




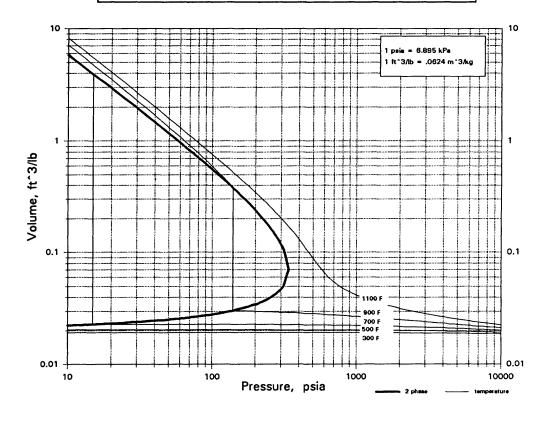


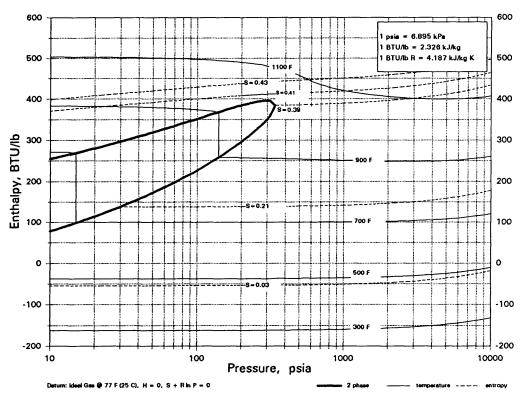




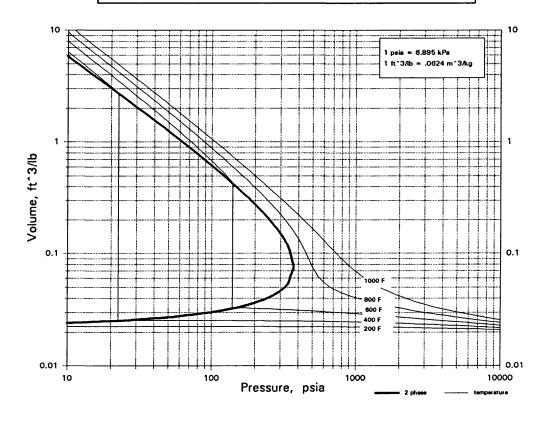


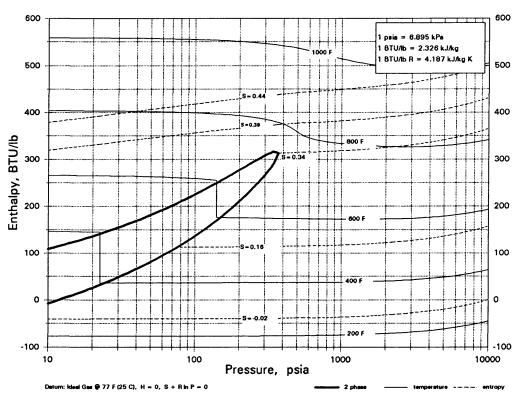


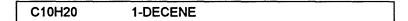


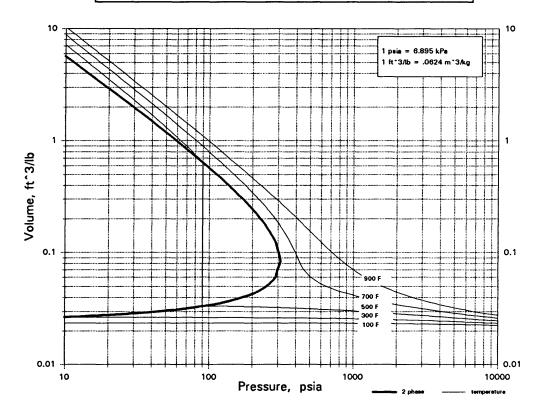


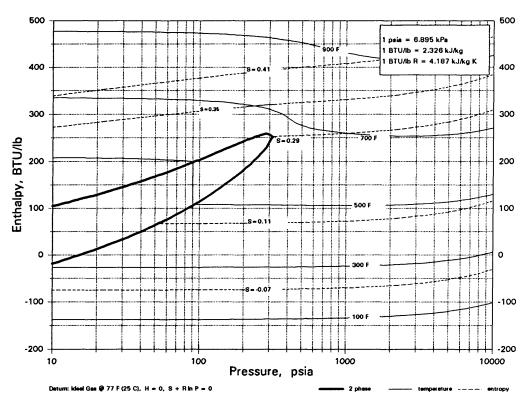


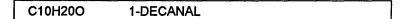


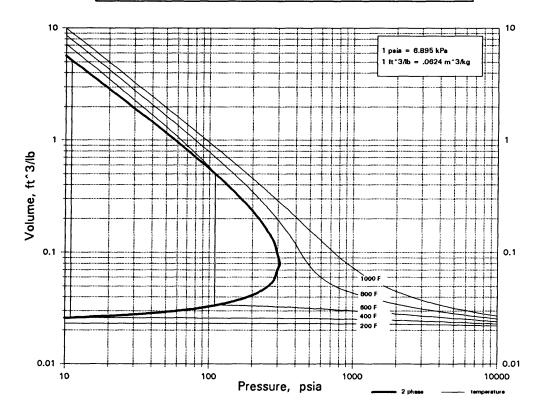


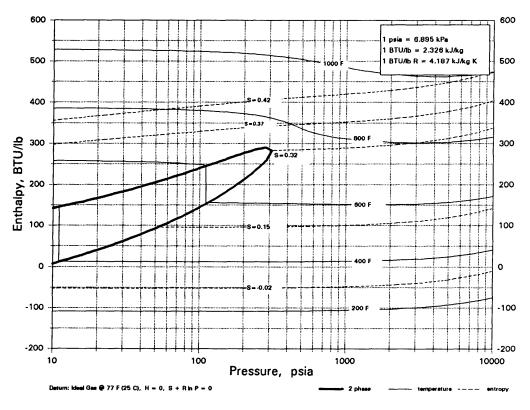




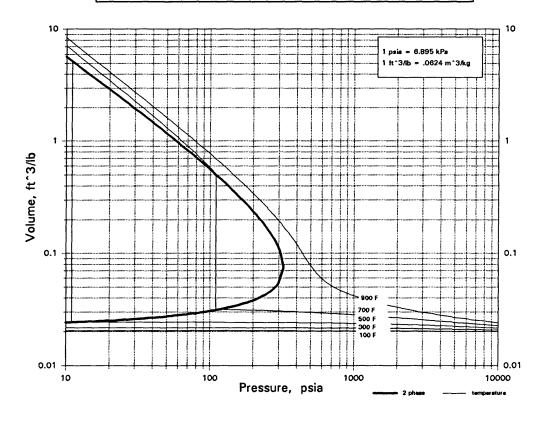


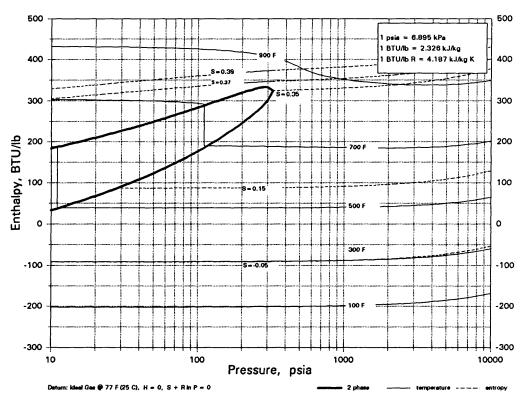




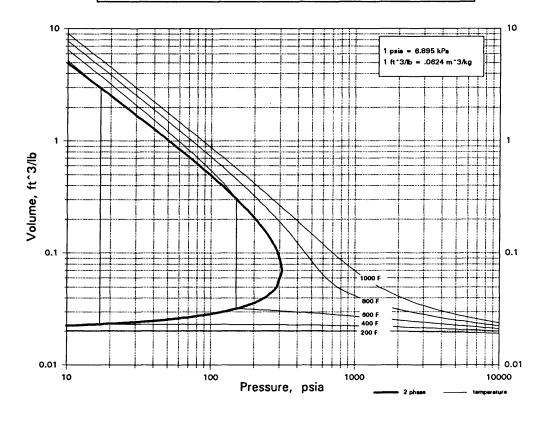


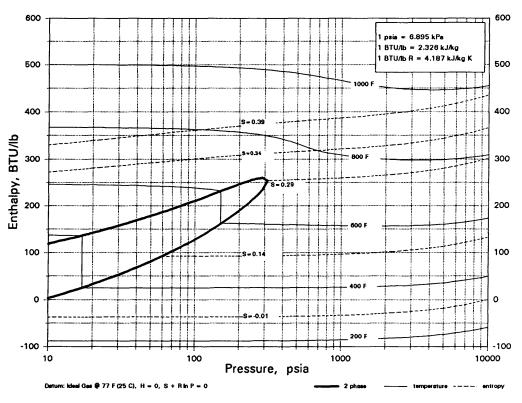




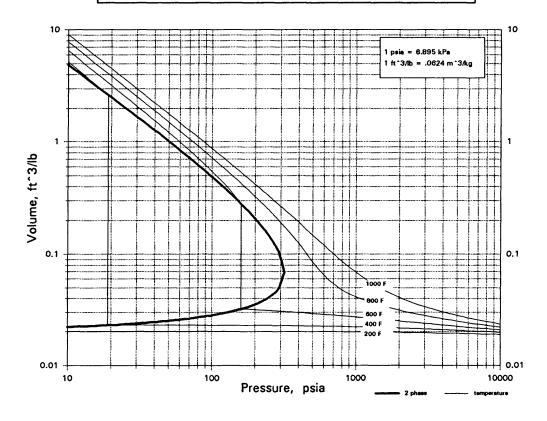


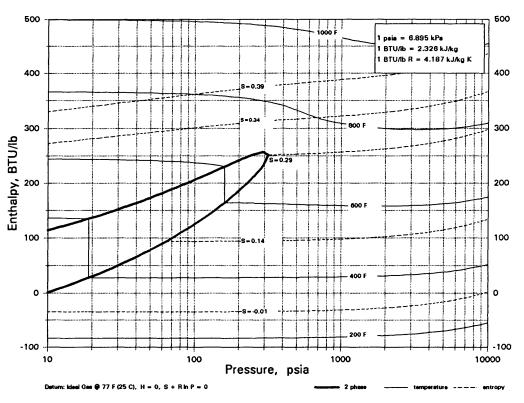
C10H20O2 2-ETHYLHEXYL ACETATE

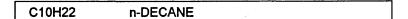


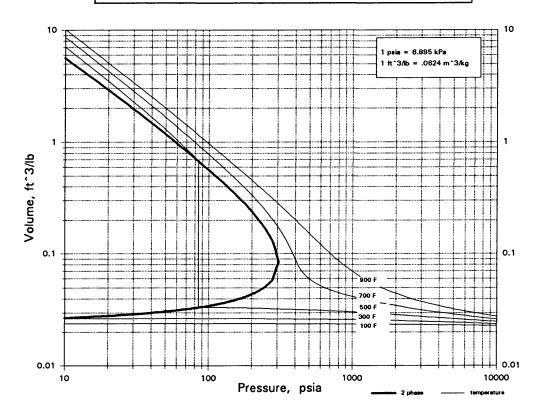


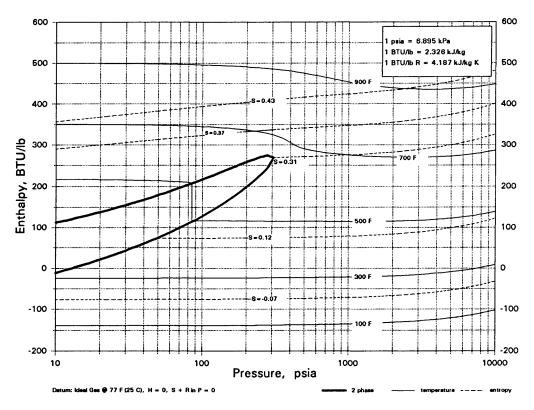
C10H20O2 ISOPENTYL ISOVALERATE



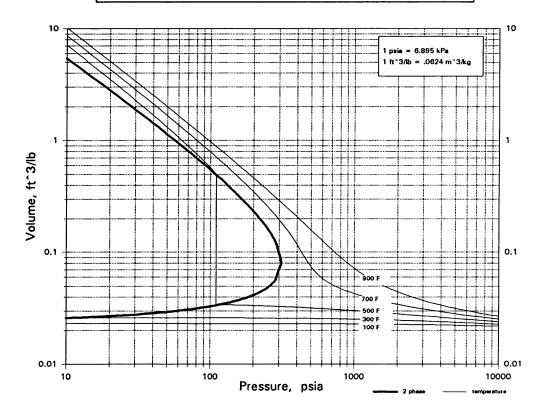


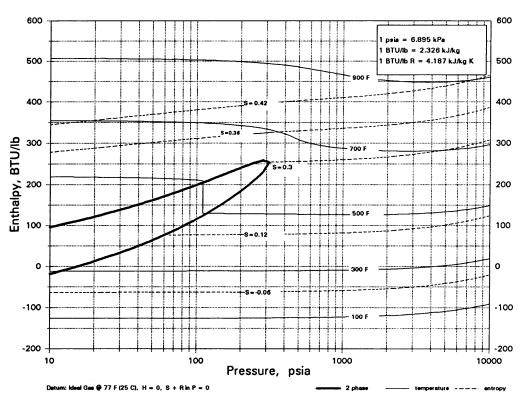


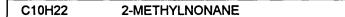


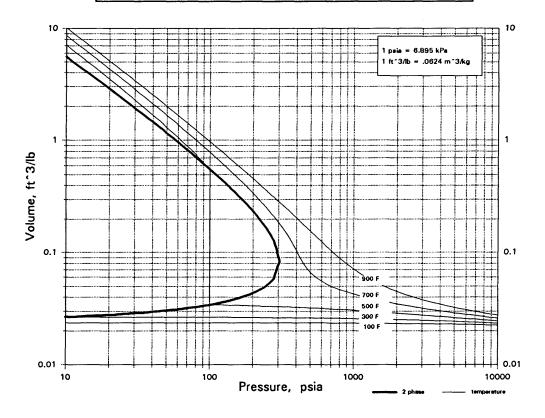


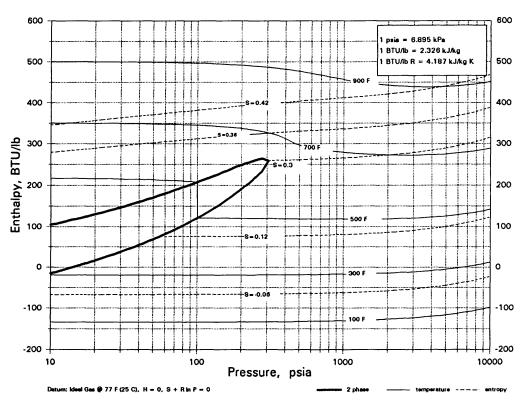




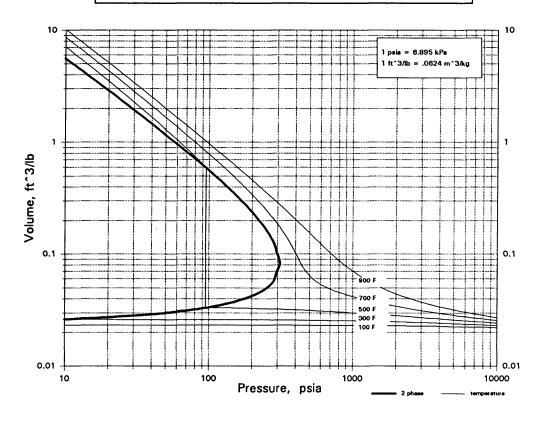


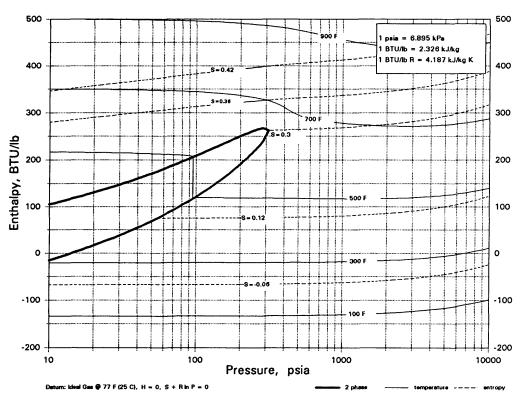


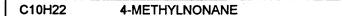


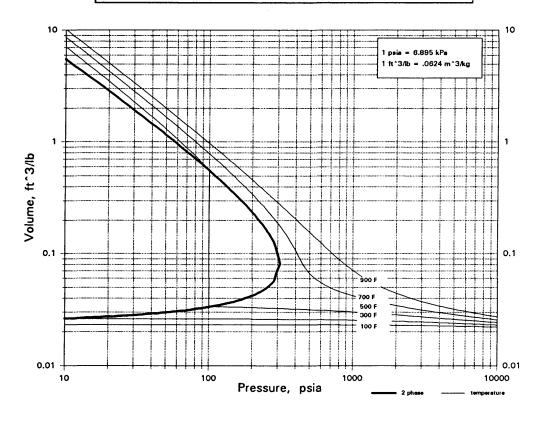


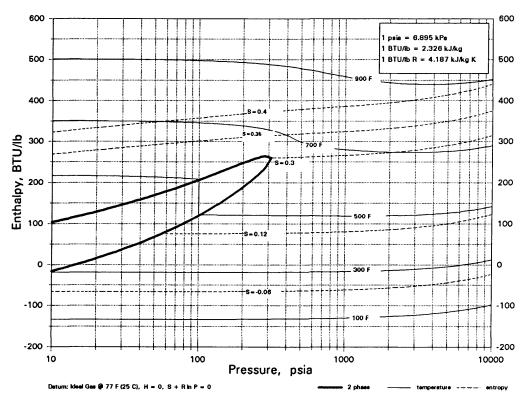


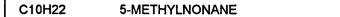


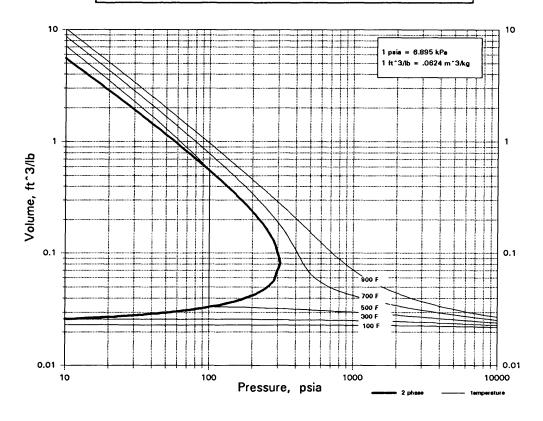


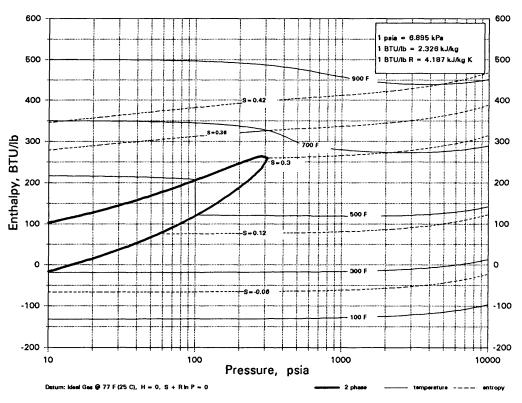




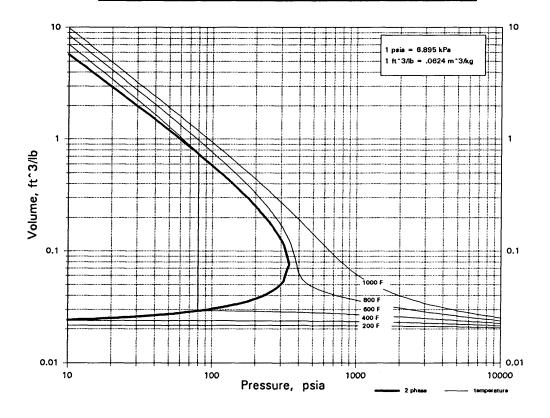


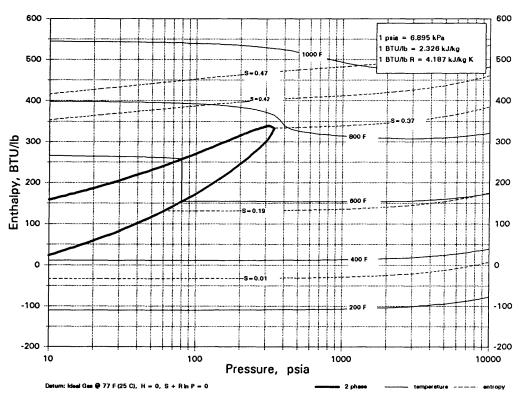




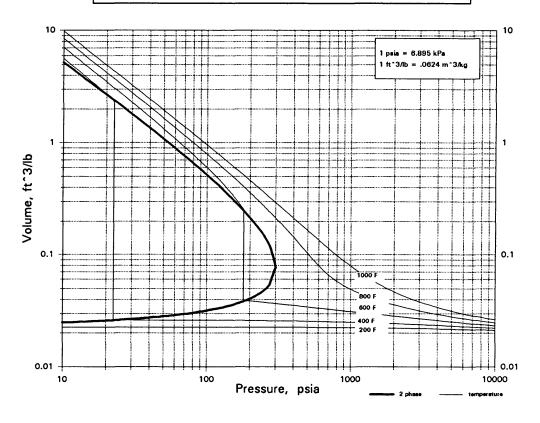


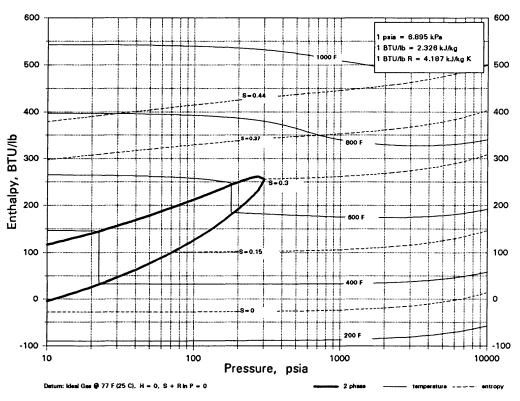




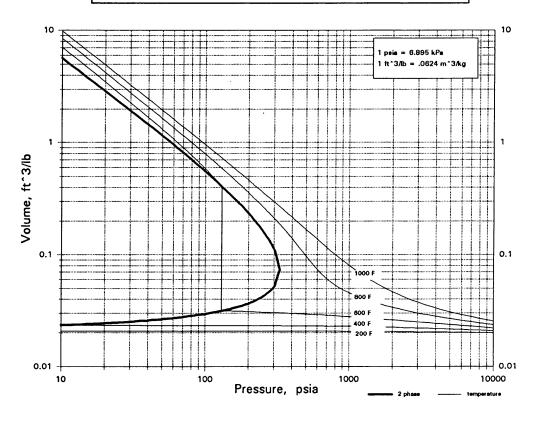


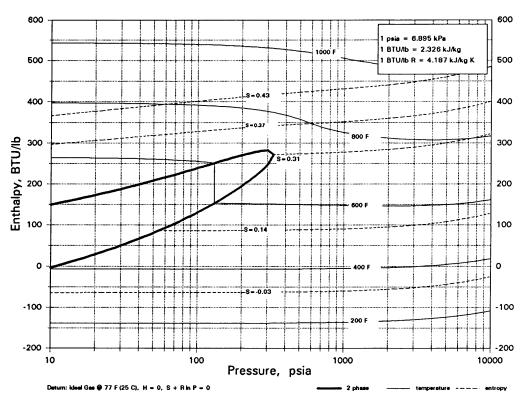




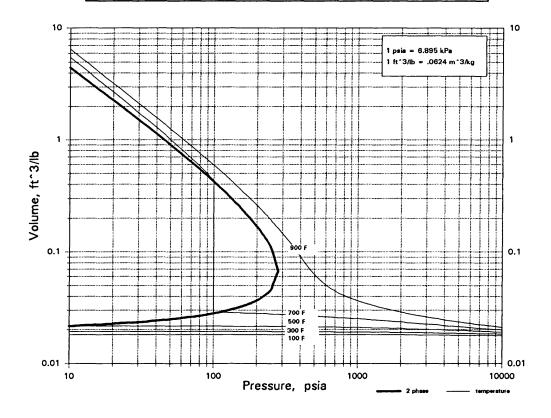


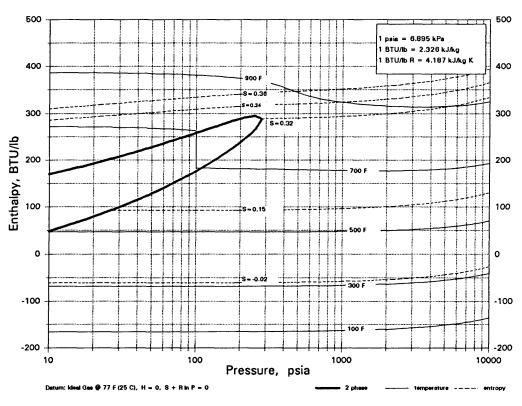




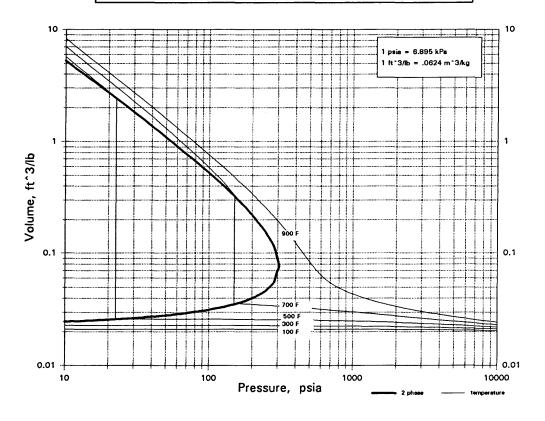


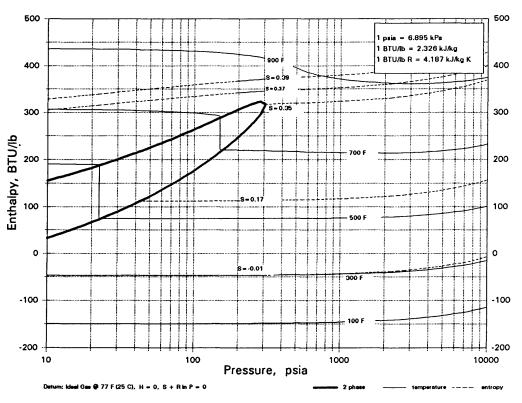
C10H22O5 TETRAETHYLENE GLYCOL DIMETHYL ETHER



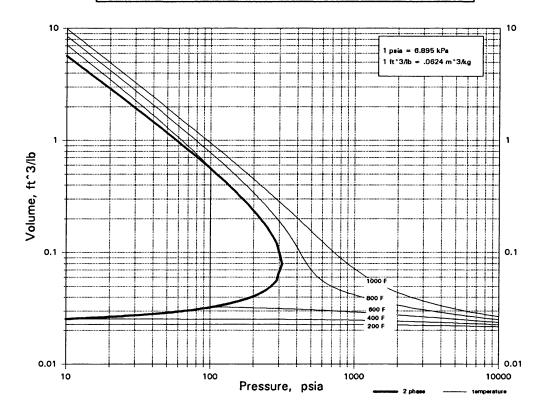


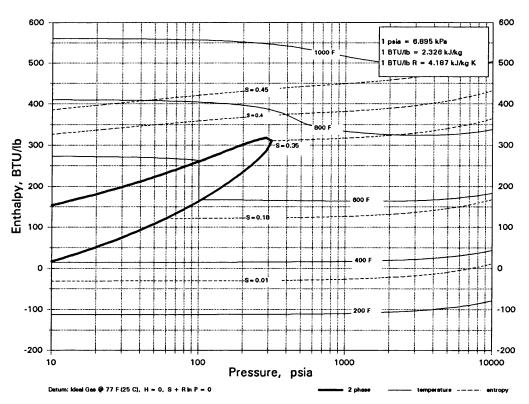




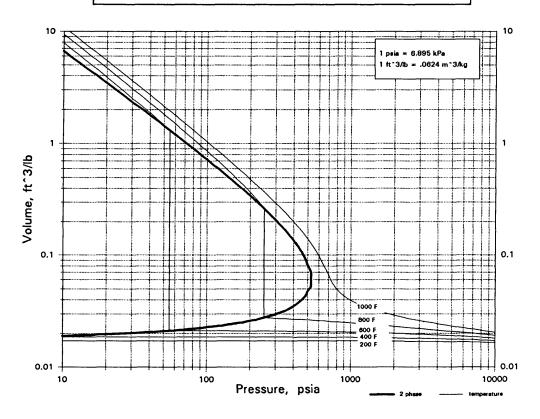


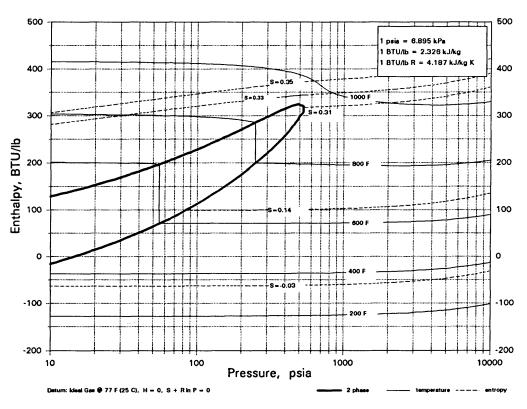


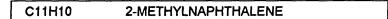


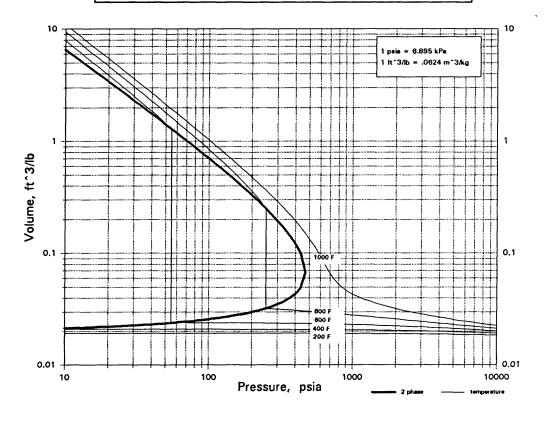


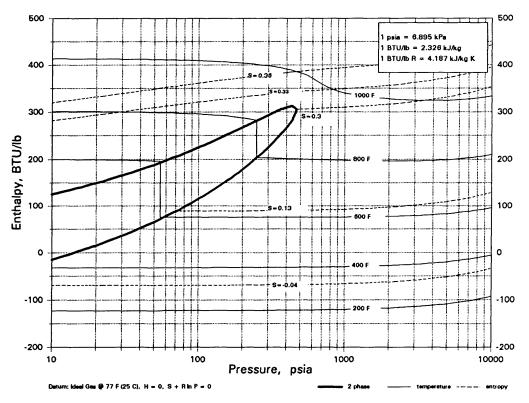




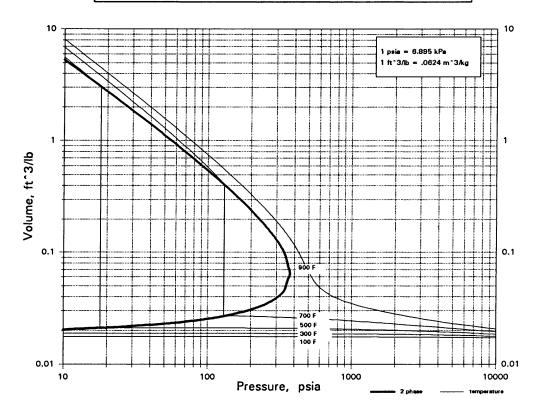


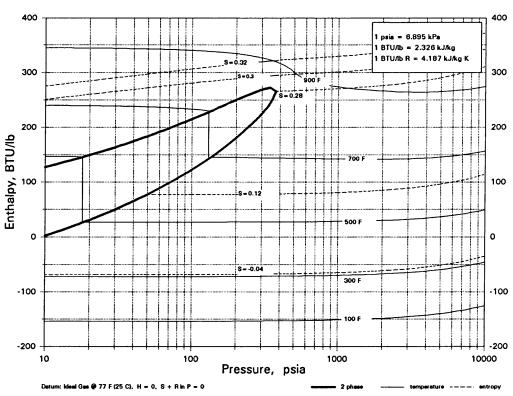




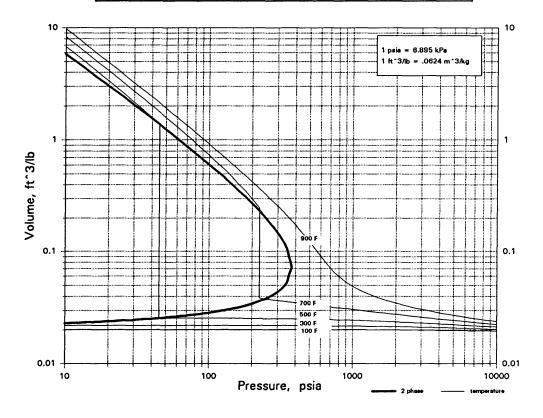


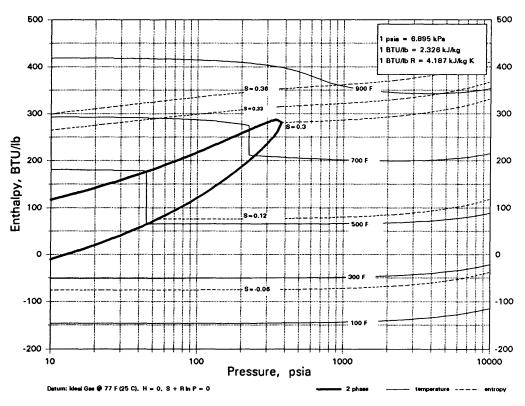




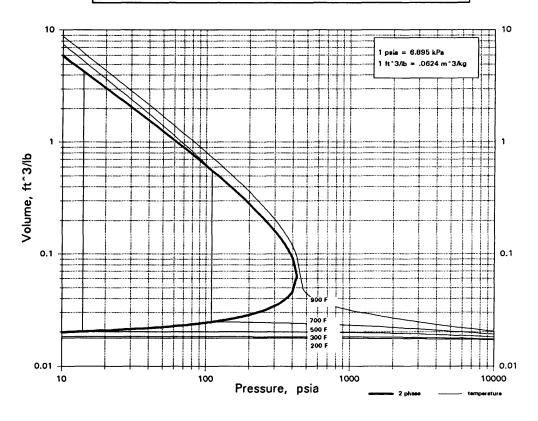


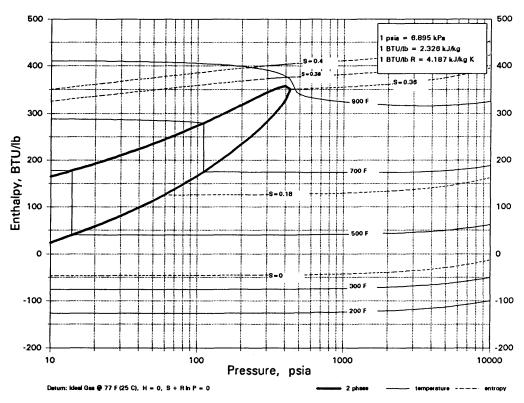




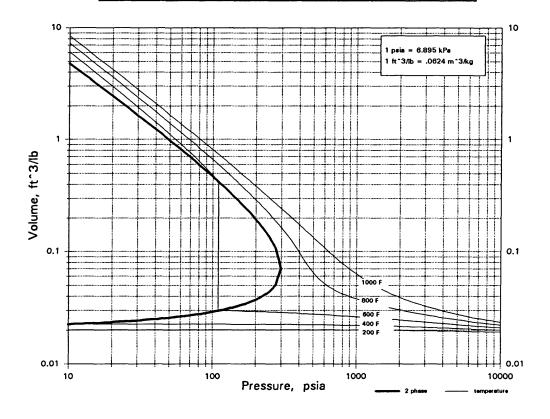


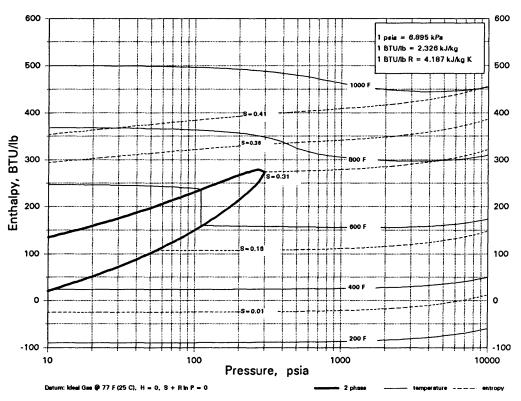




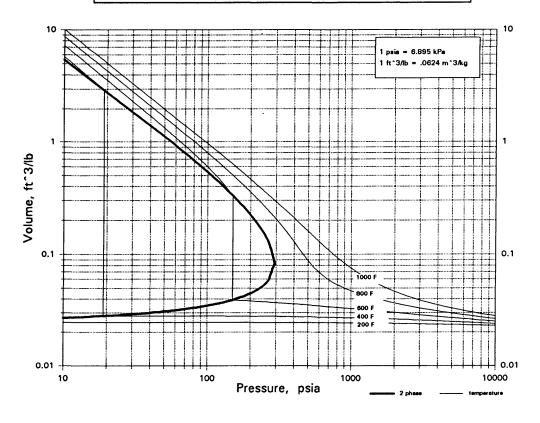


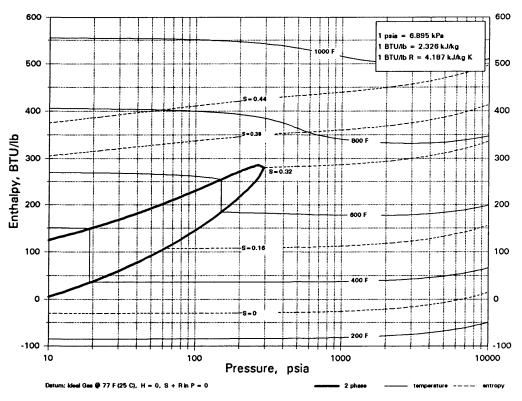
C11H20O2 2-ETHYLHEXYL ACRYLATE

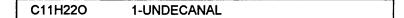


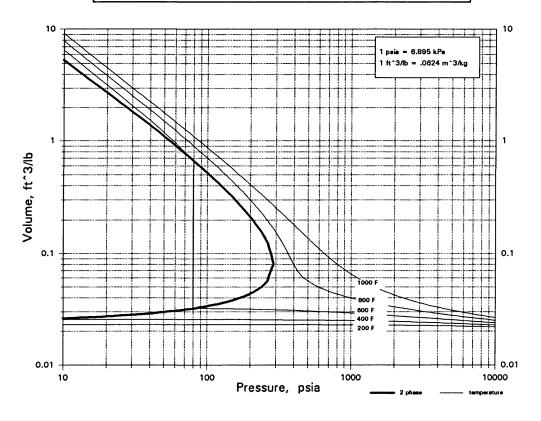


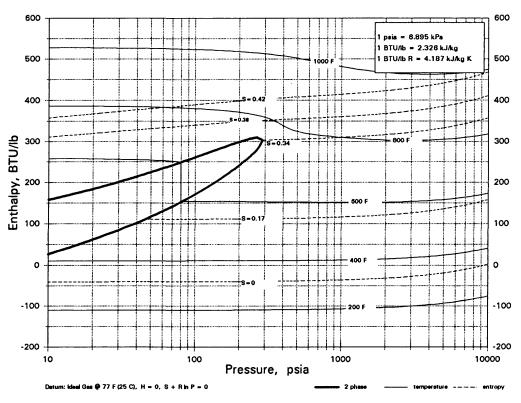




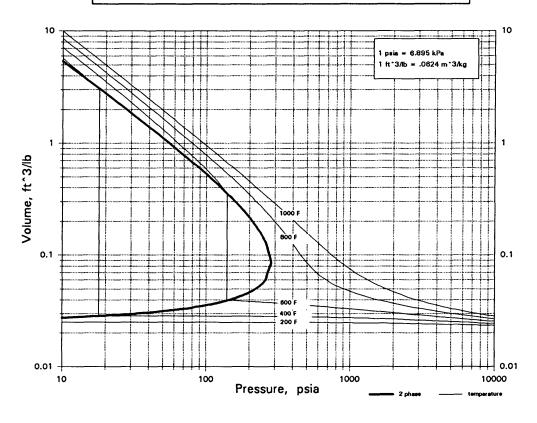


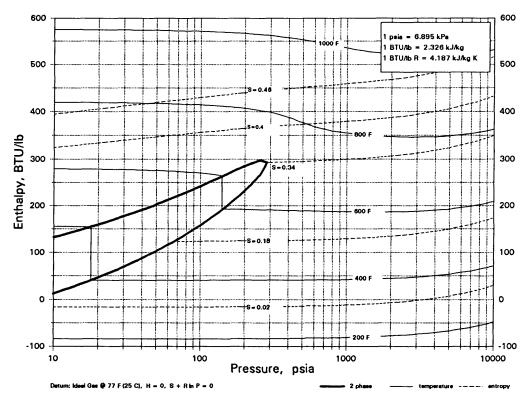




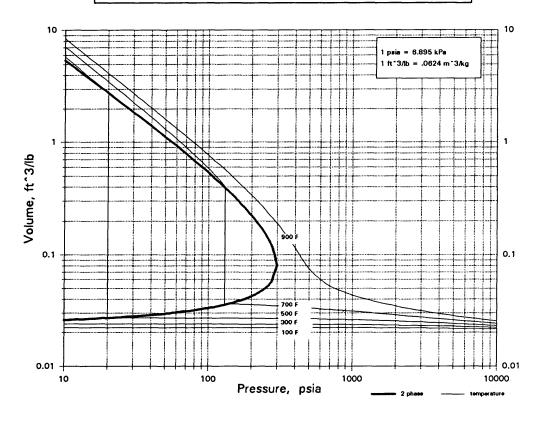


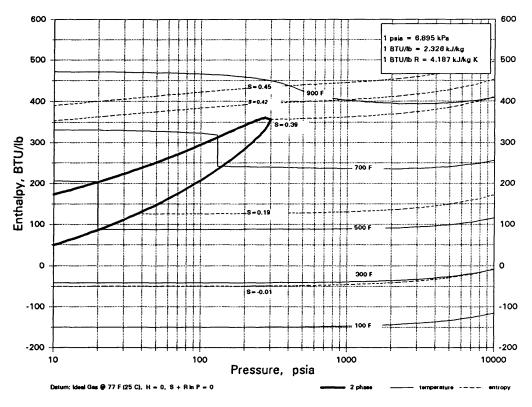


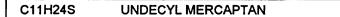


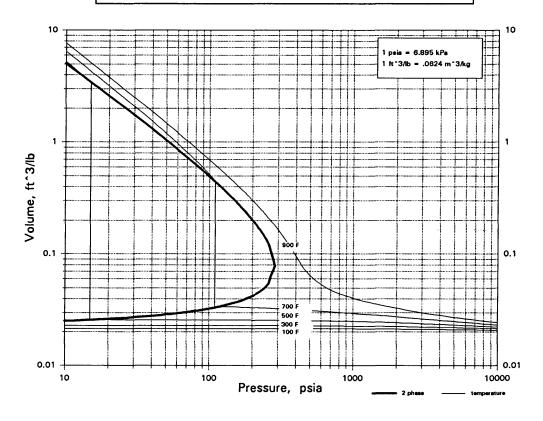


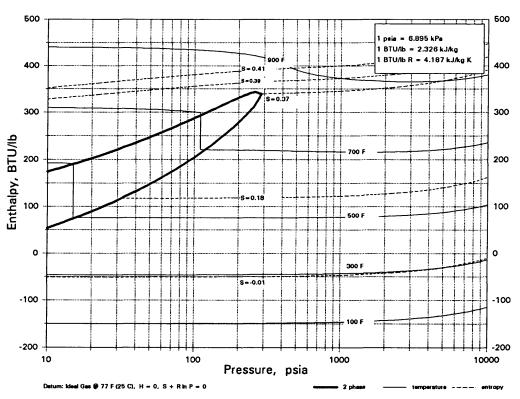




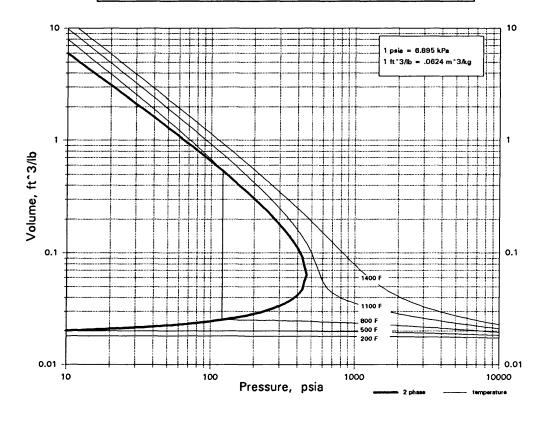


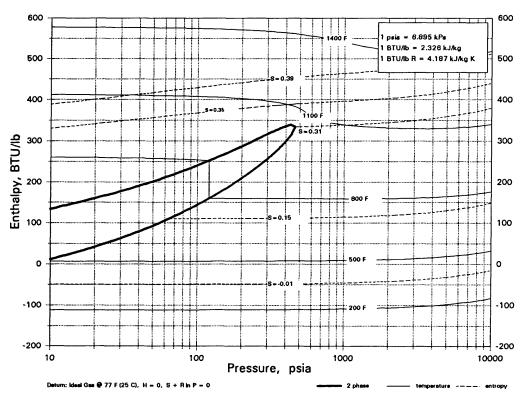




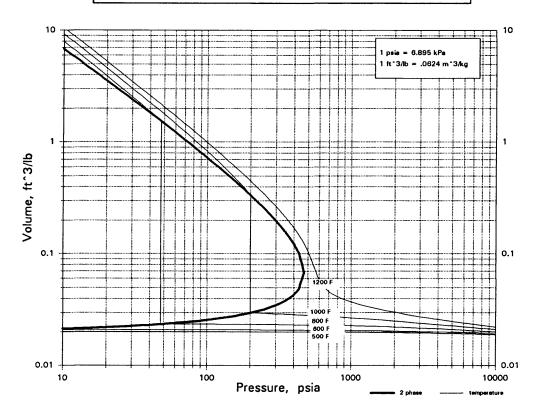


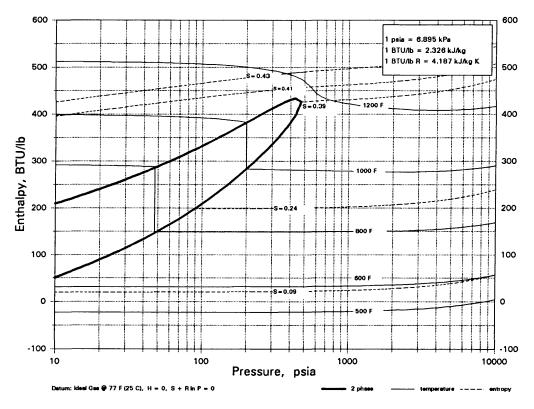




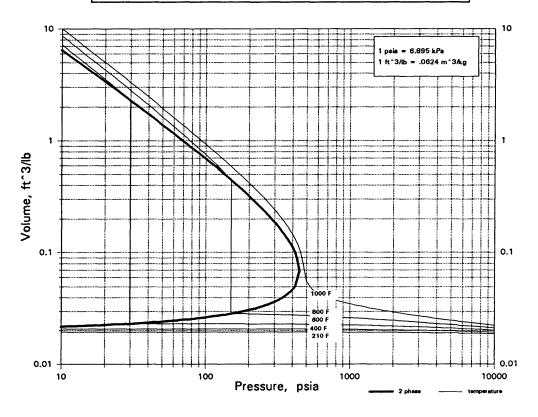


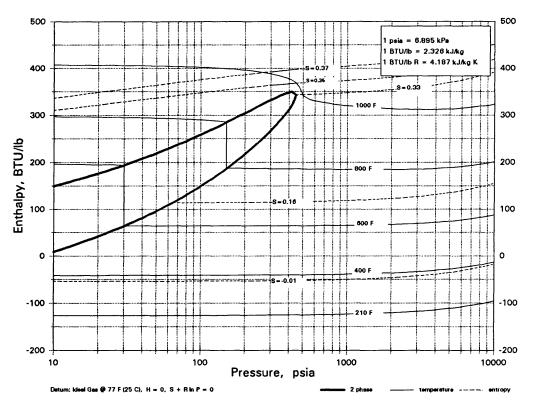




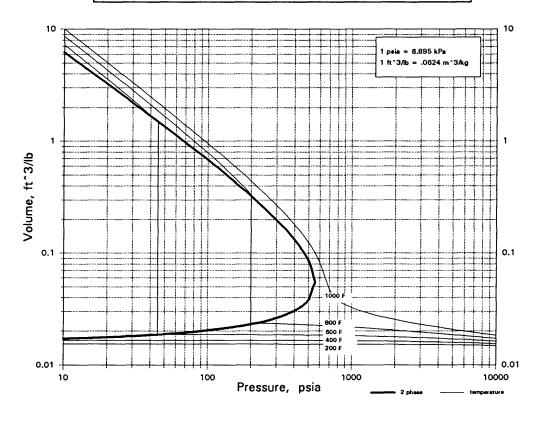


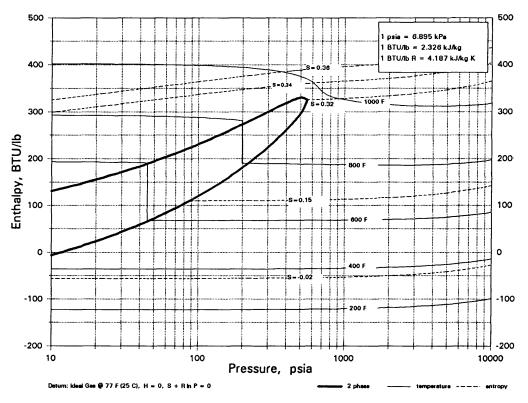




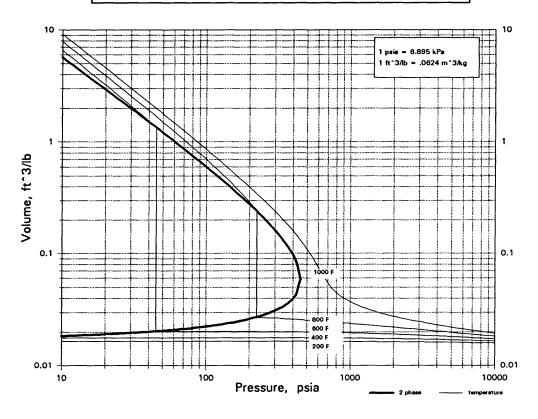


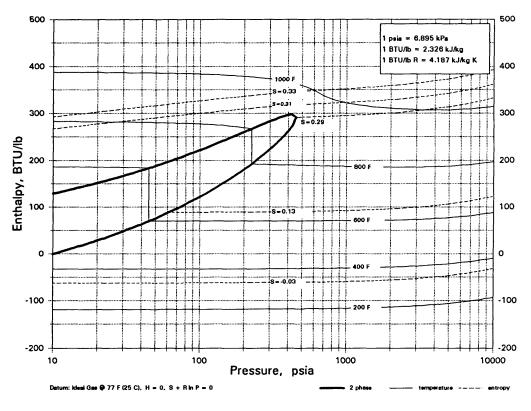




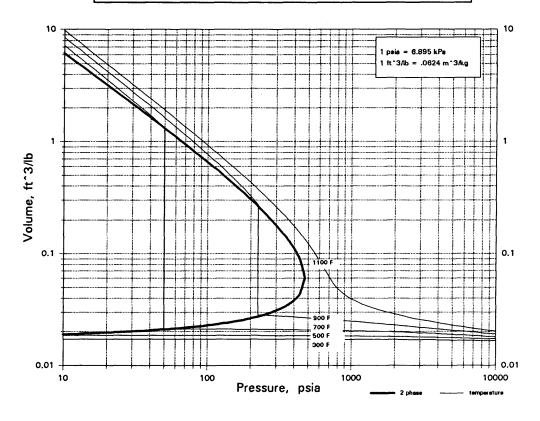


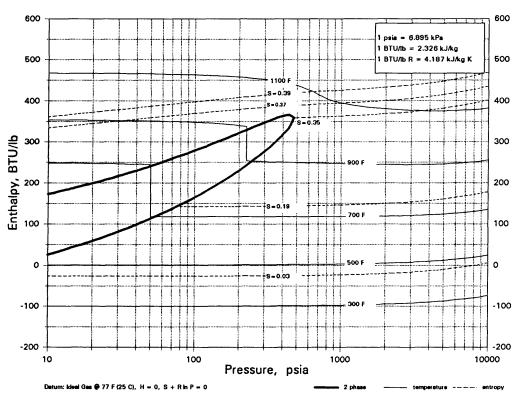


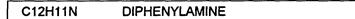


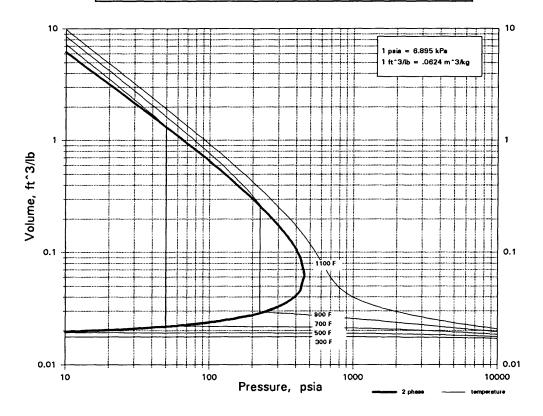


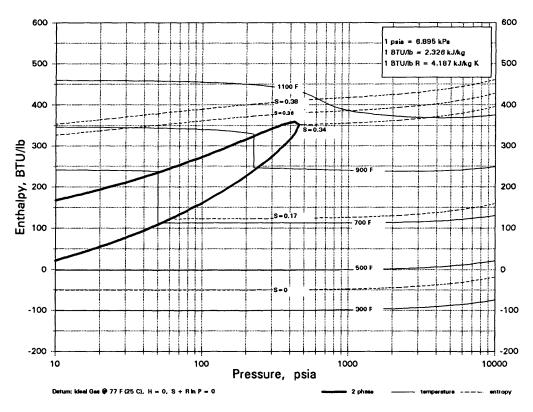




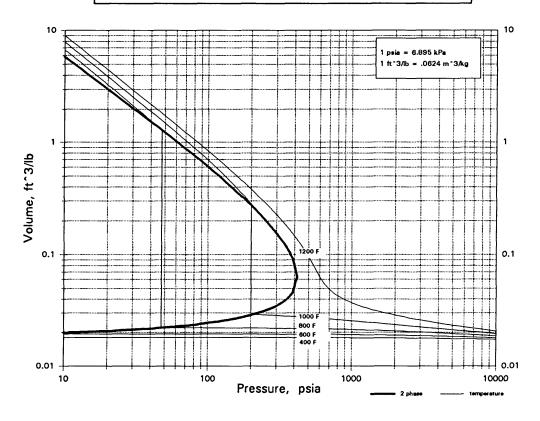


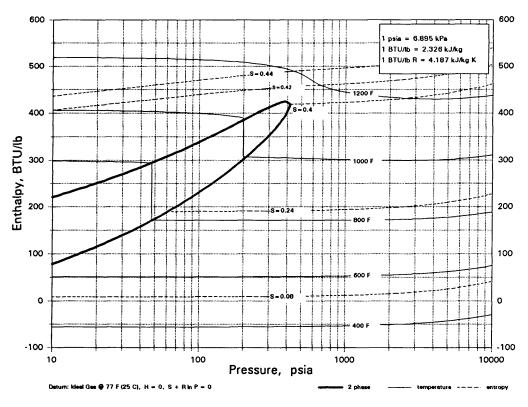




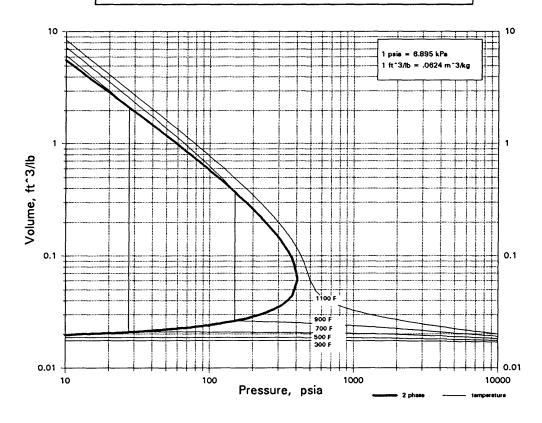


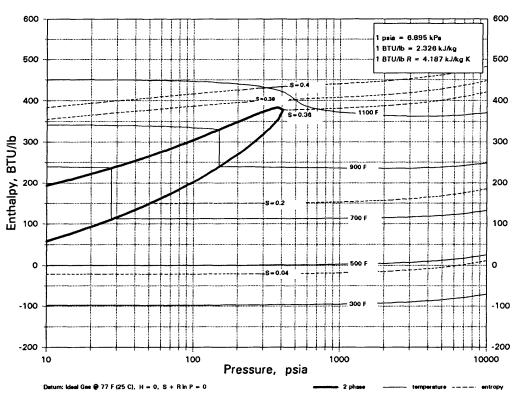




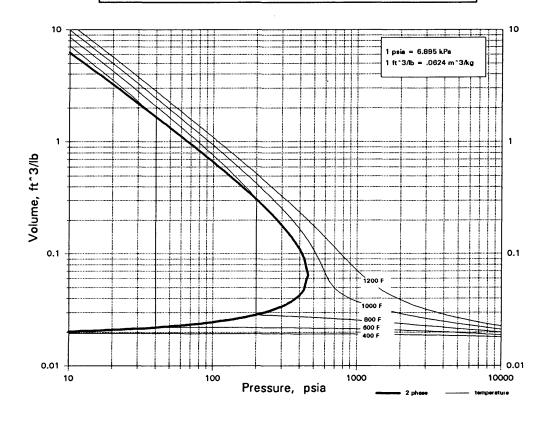


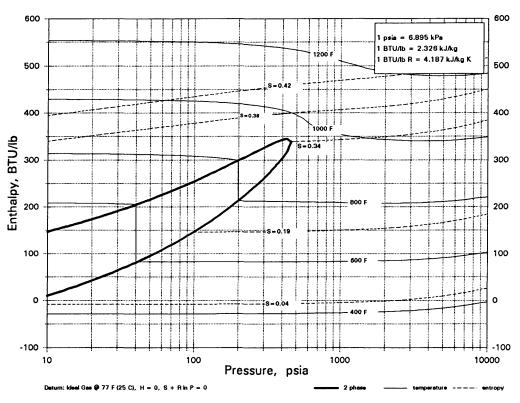




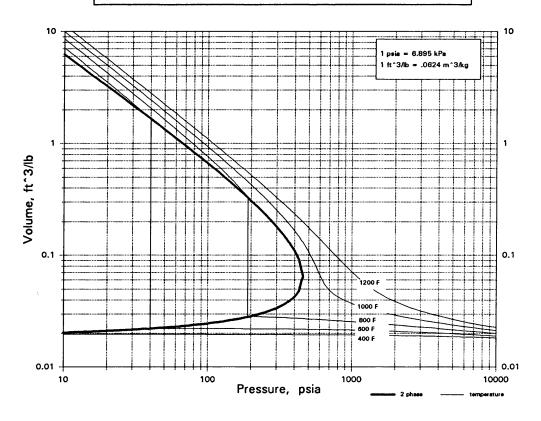


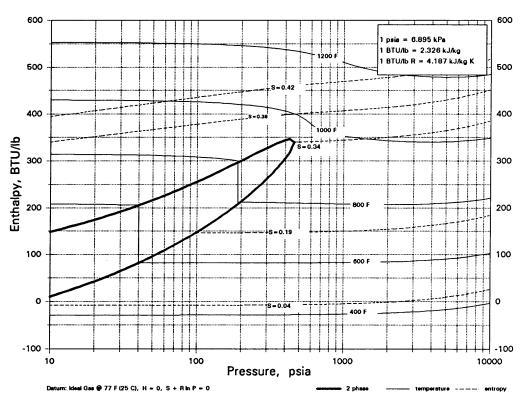




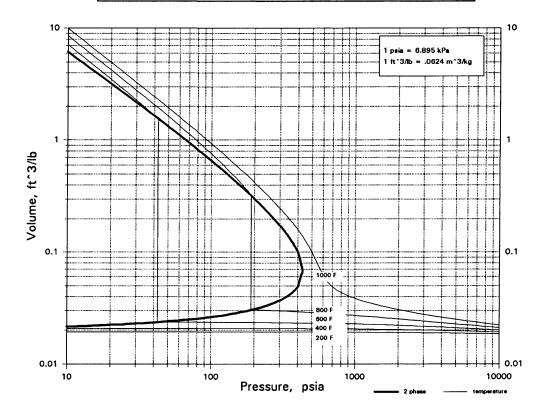


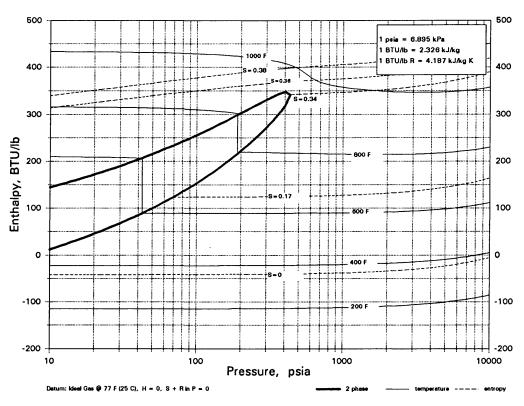




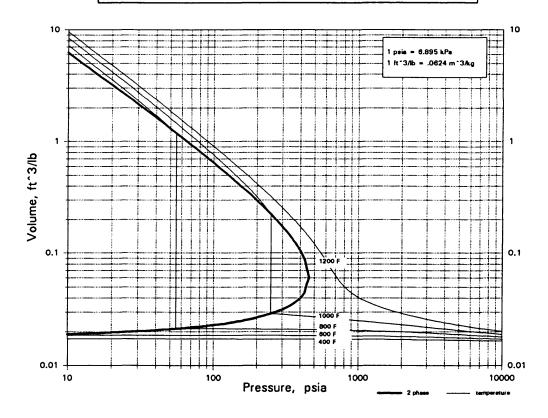


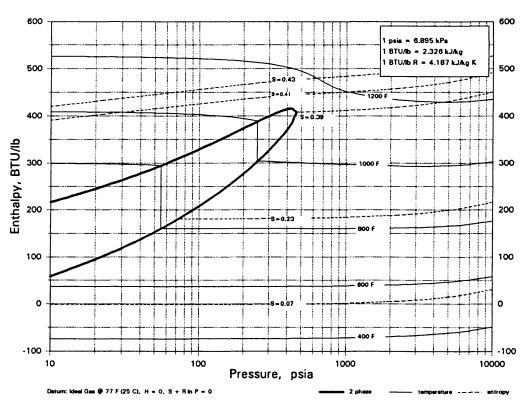




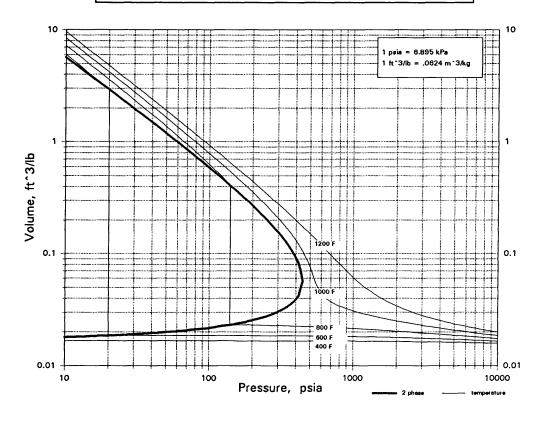


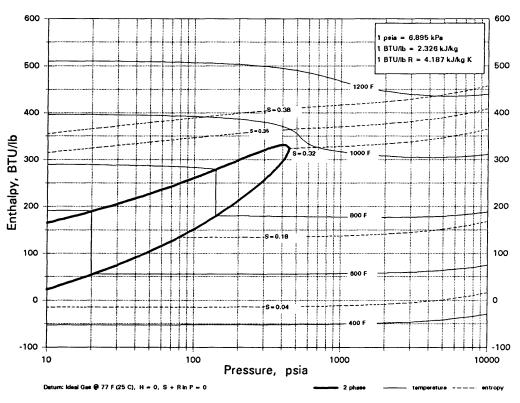
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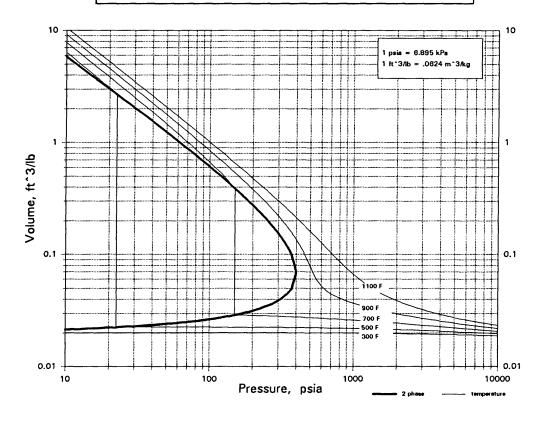


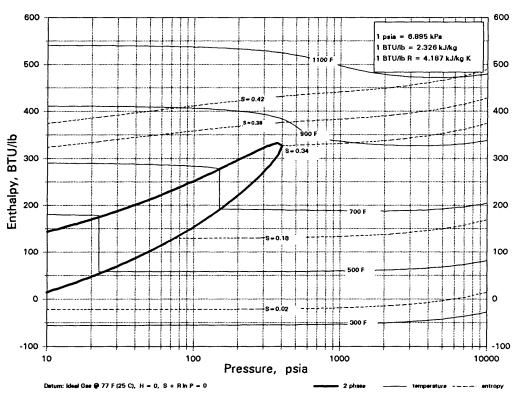


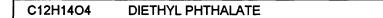


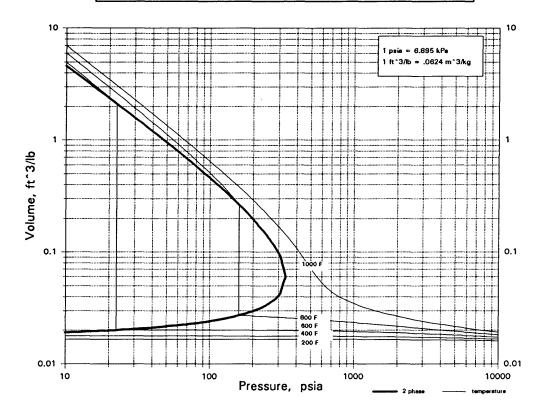


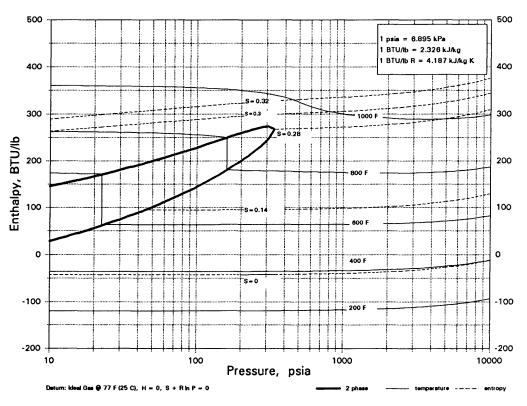




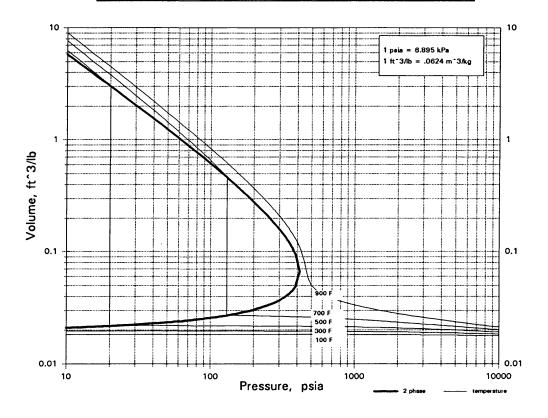


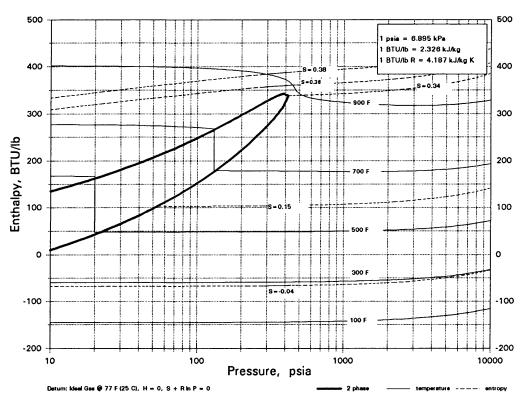




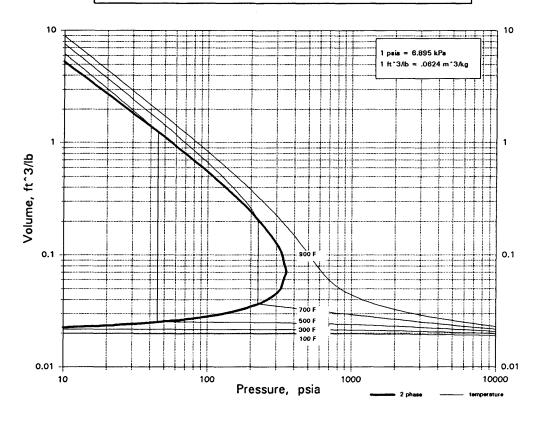


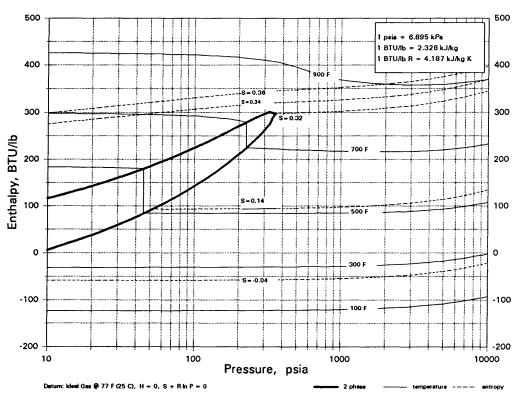




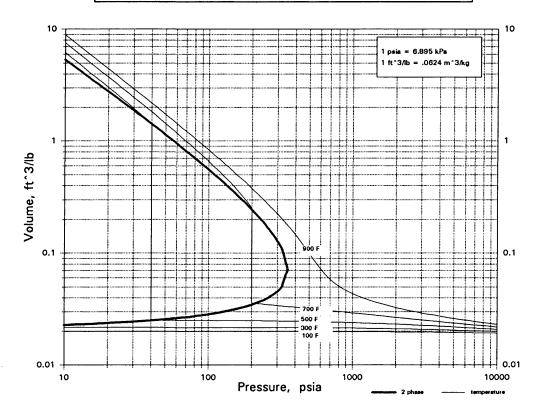


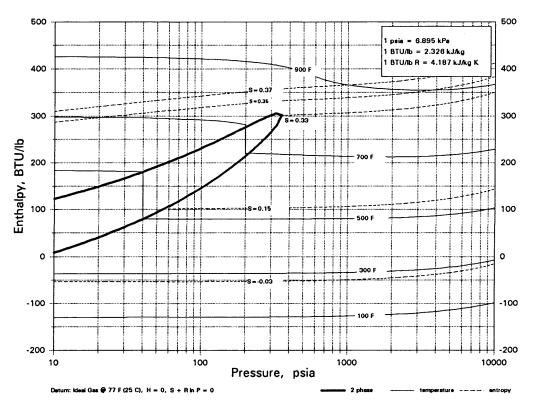




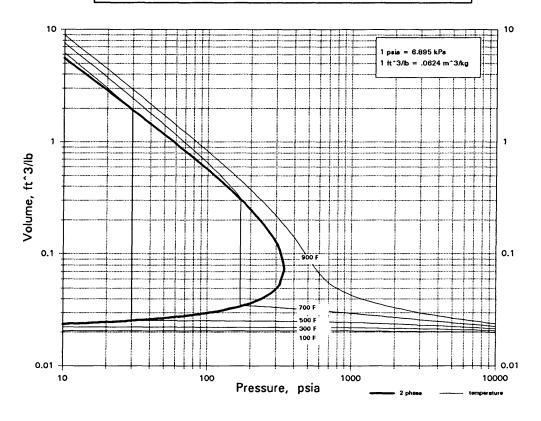


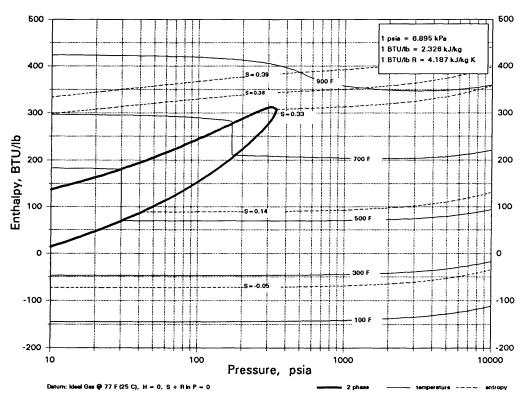




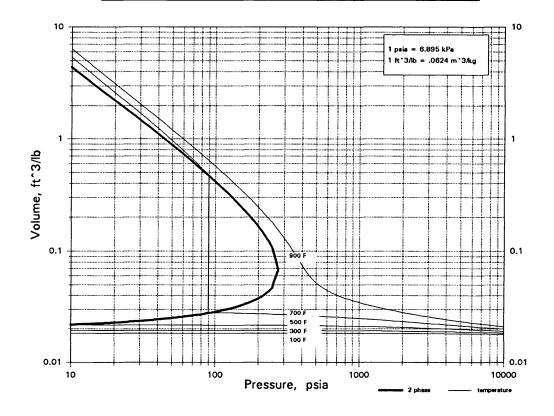


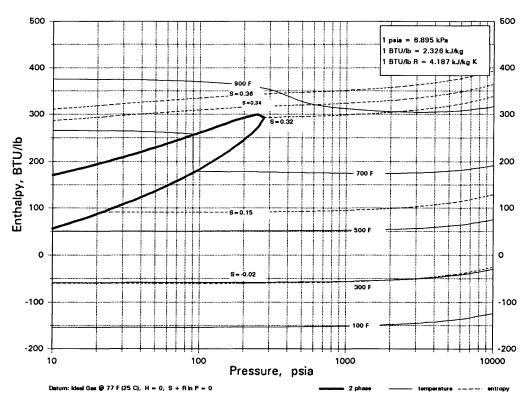




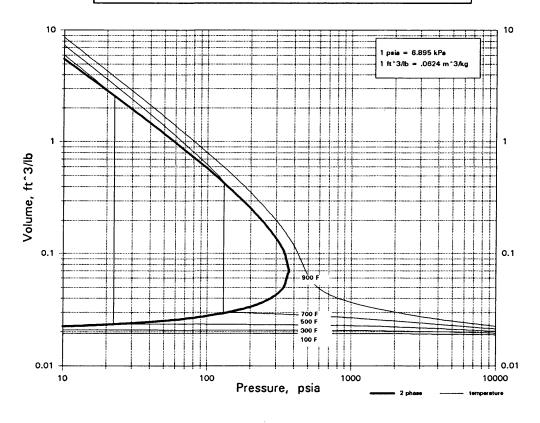


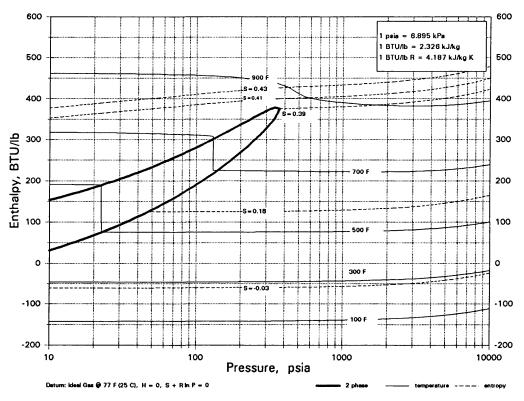
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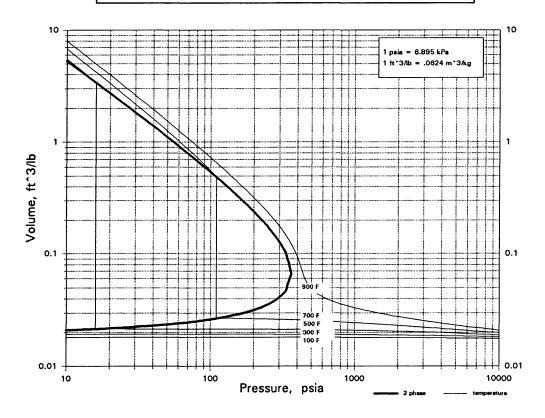


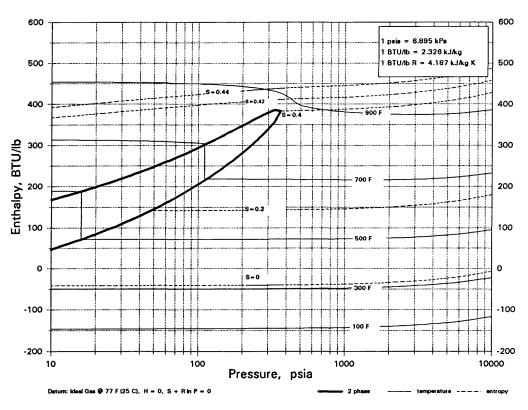




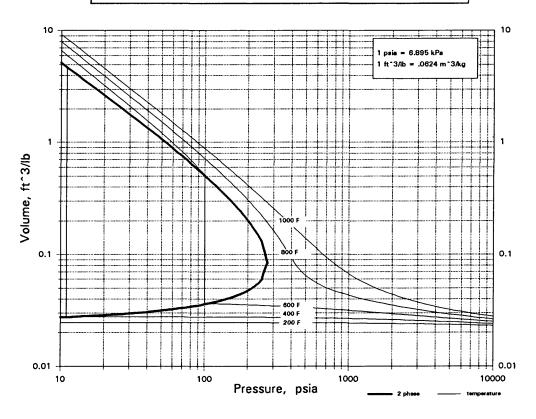


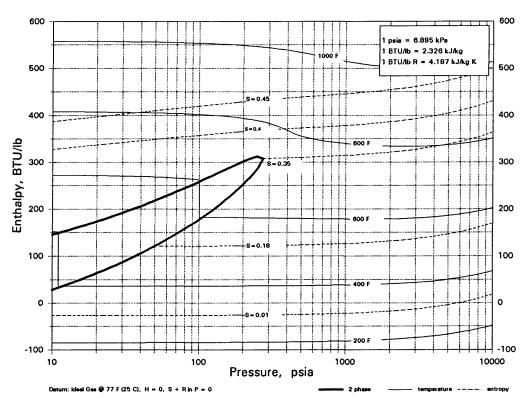


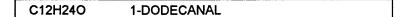


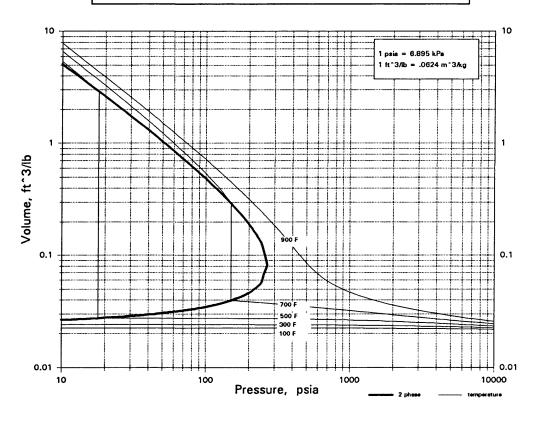


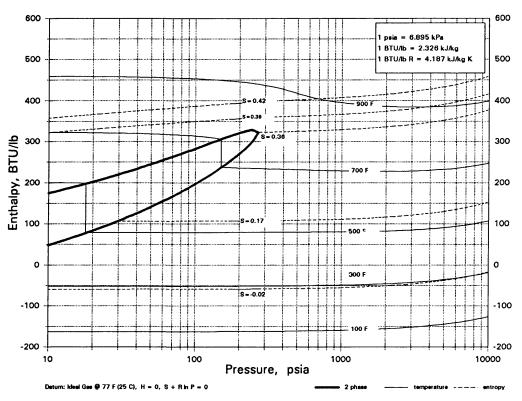




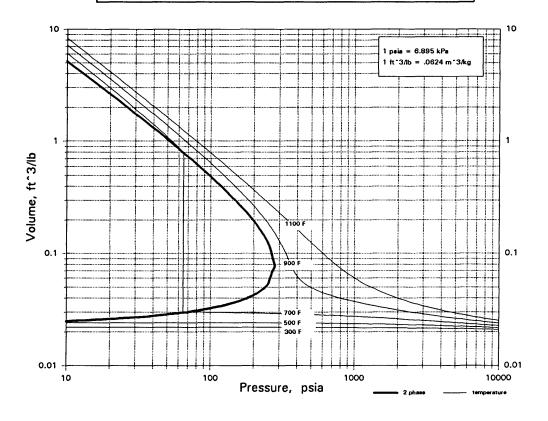


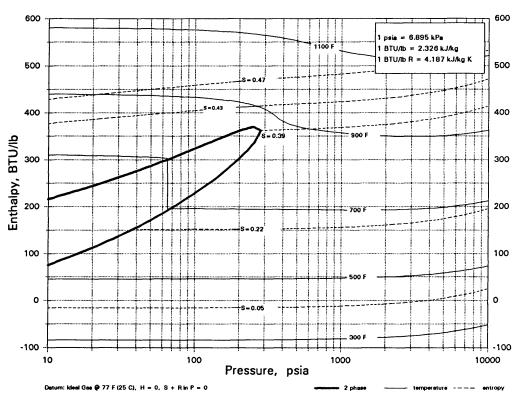




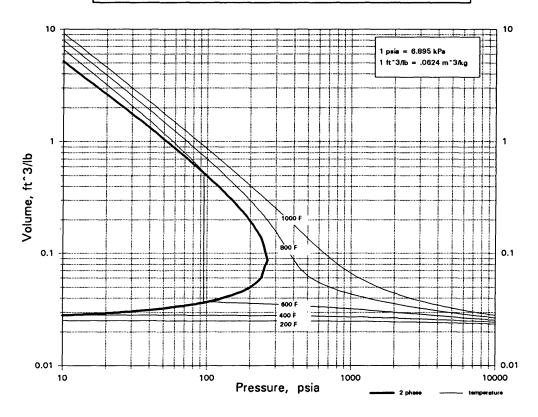


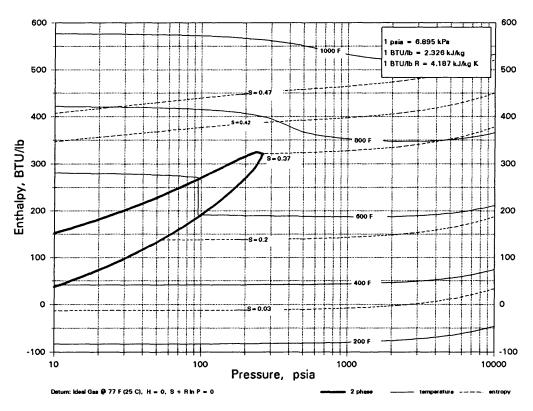




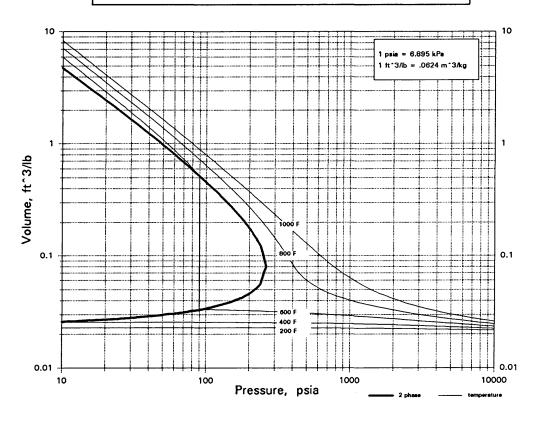


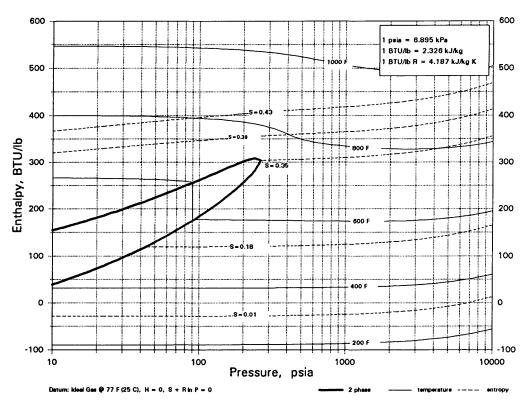


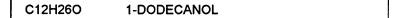


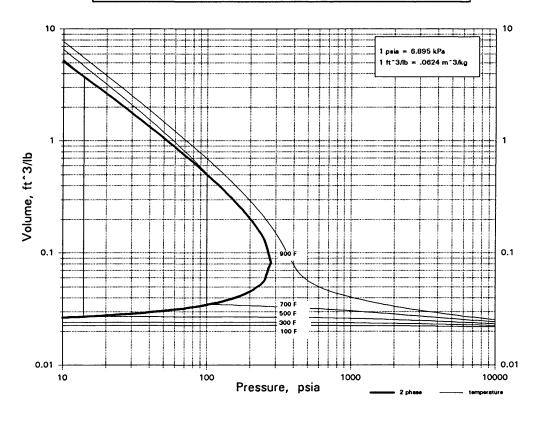


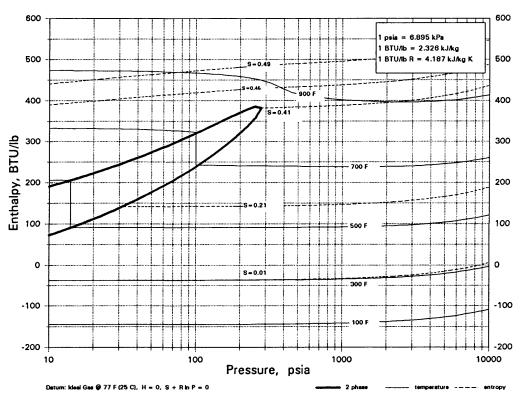




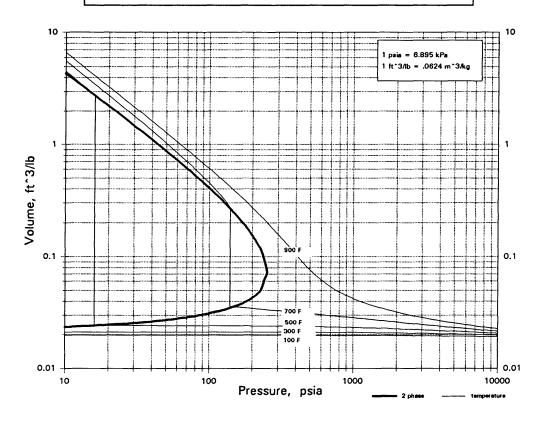


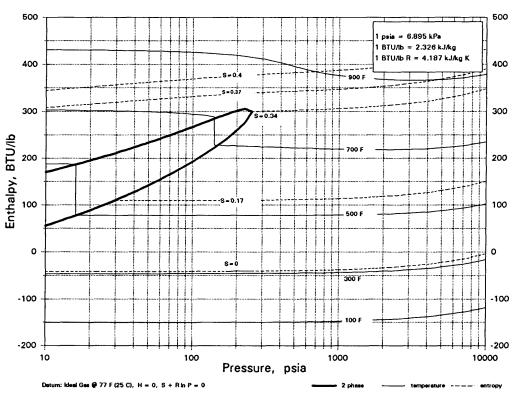


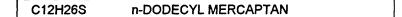


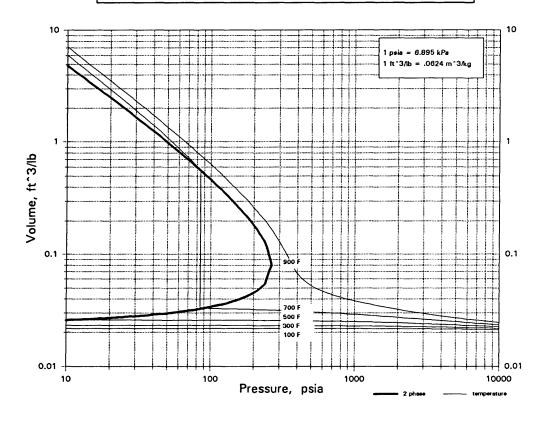


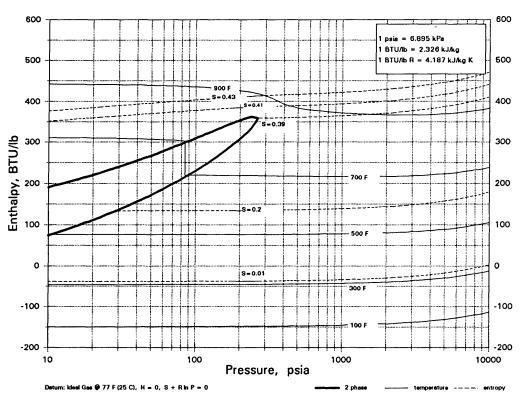
C12H26O3 DIETHYLENE GLYCOL DI-n-BUTYL ETHER

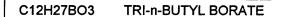


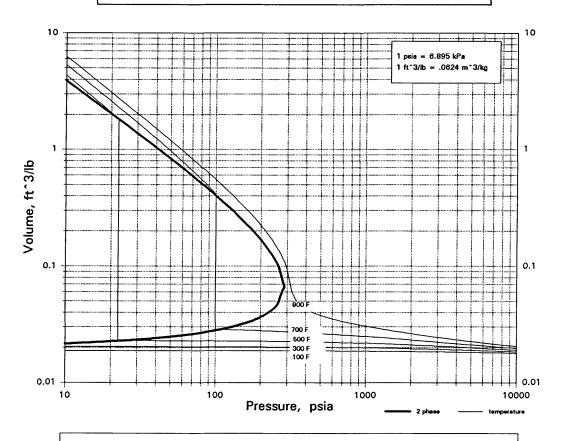








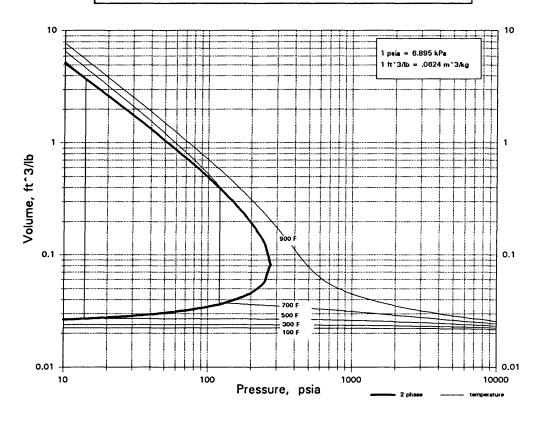


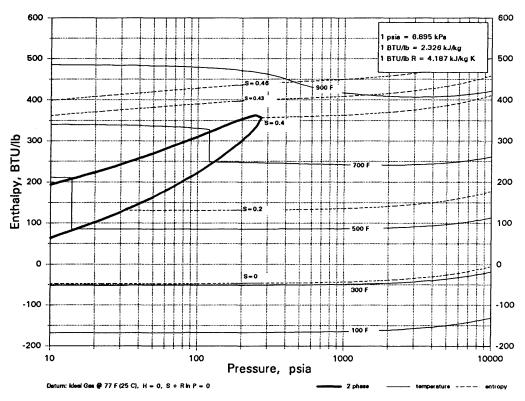


3. Critical Pressure, atm..... 19.63

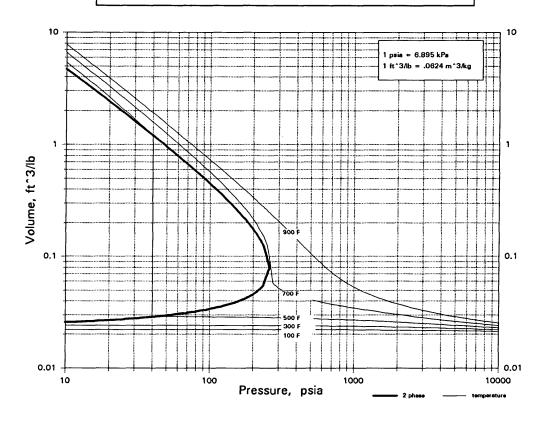
Heat capacity data are not available.

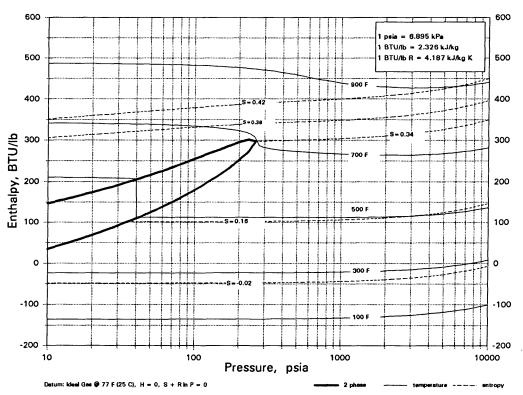


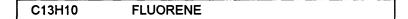


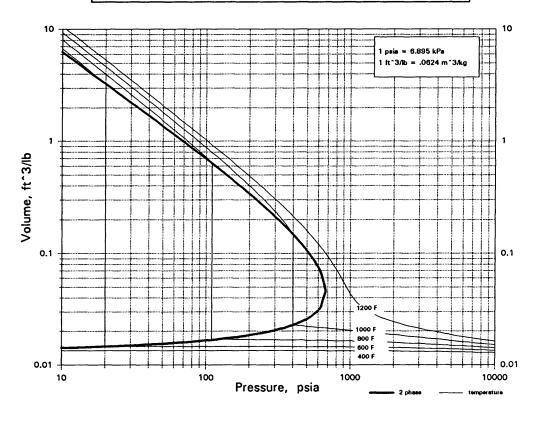


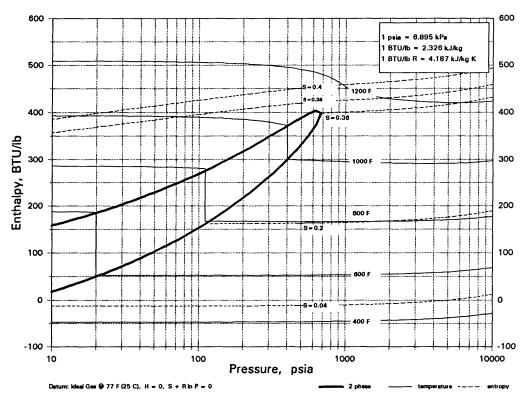




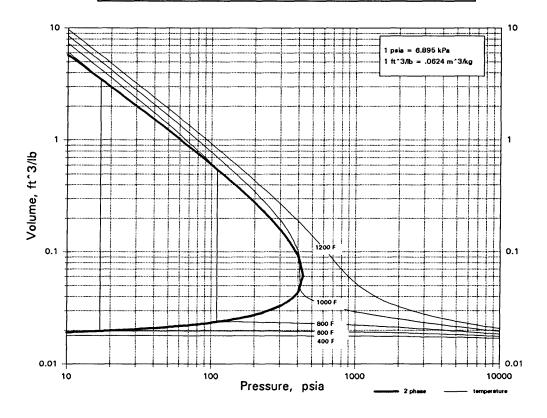


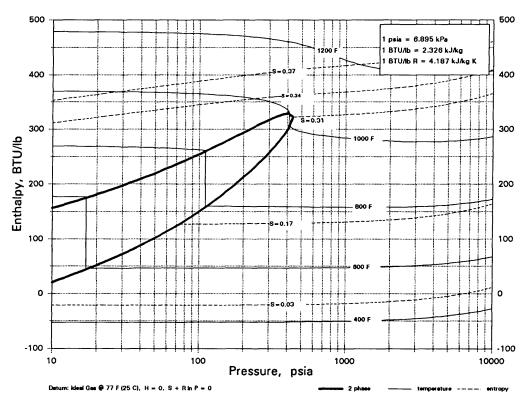




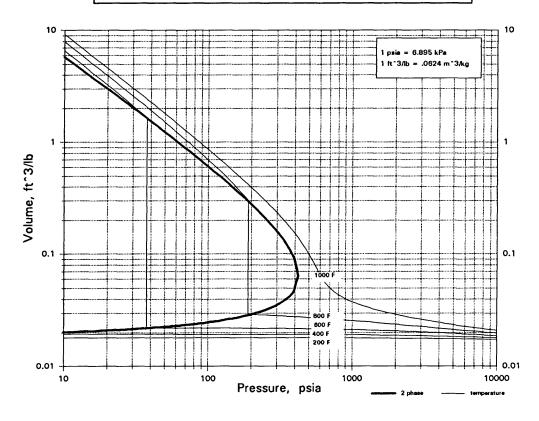


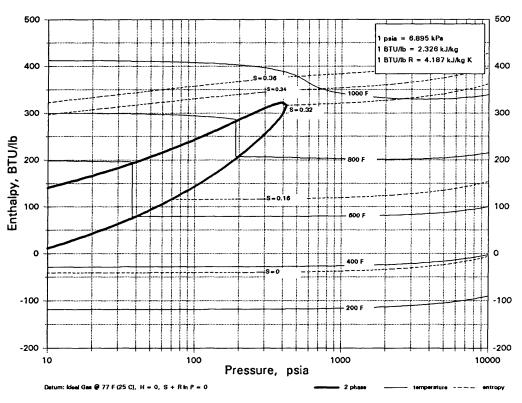


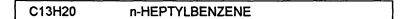


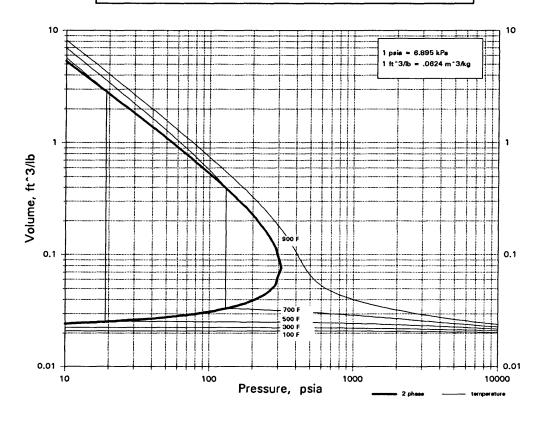


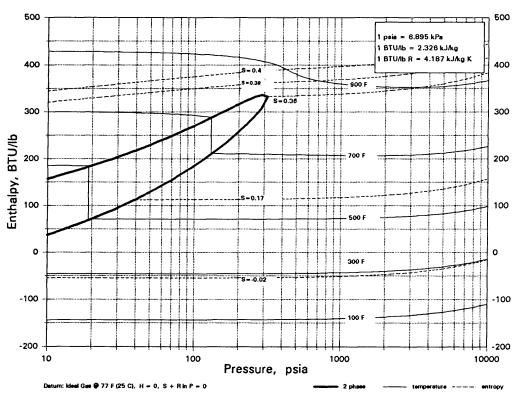




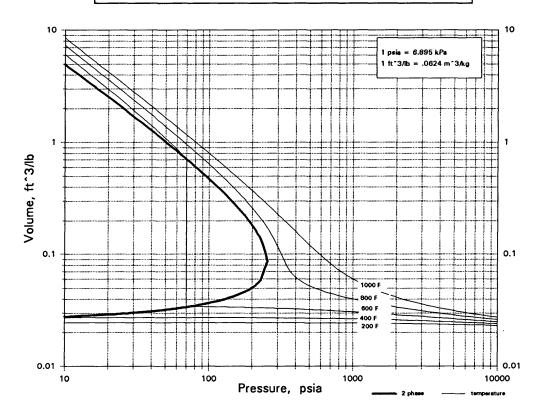


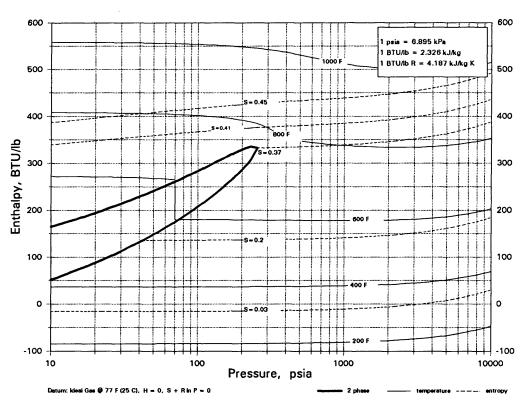




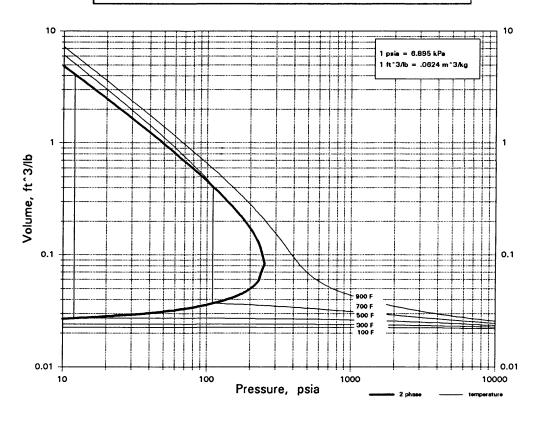


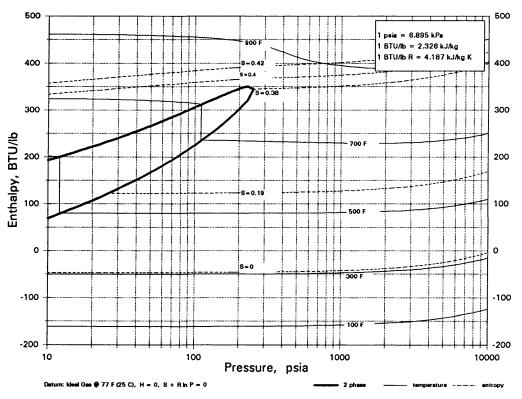




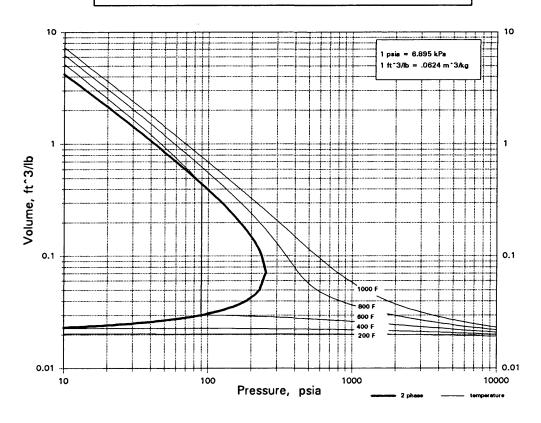


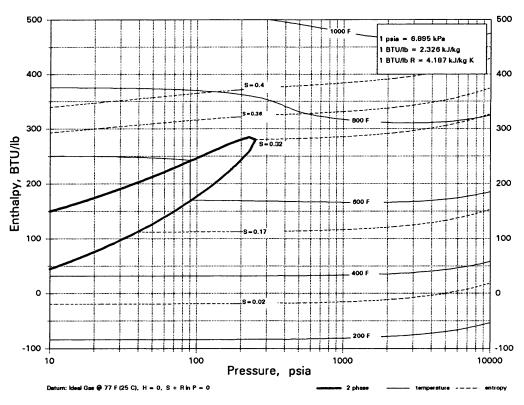




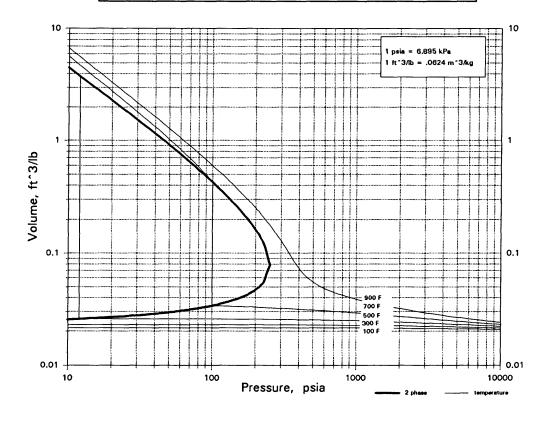


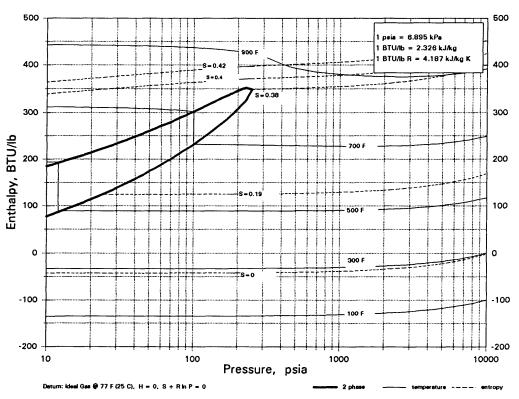




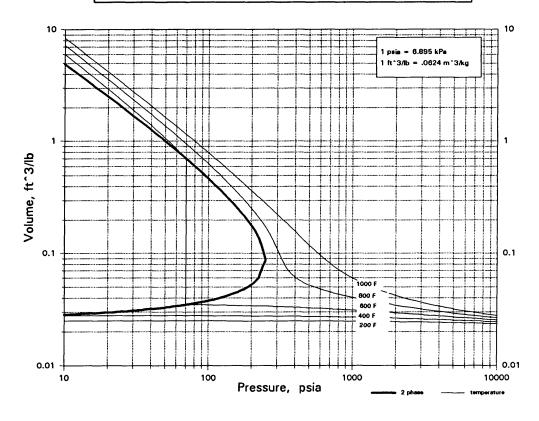


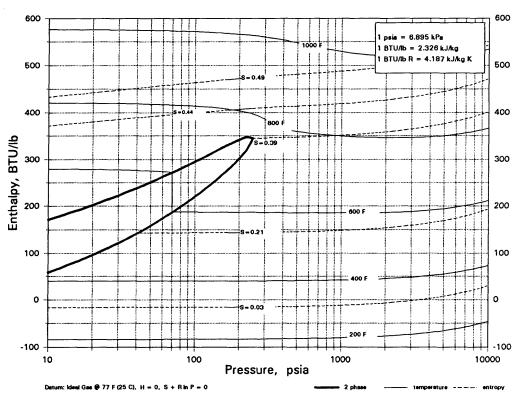




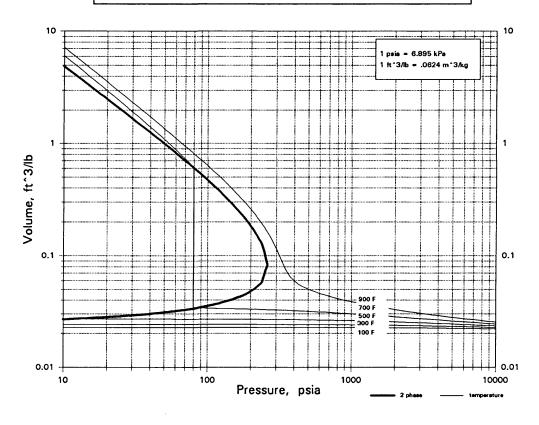


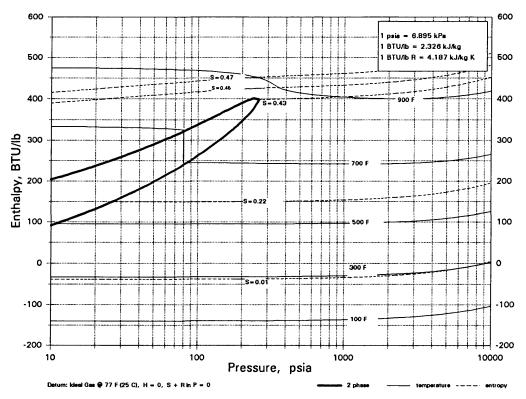




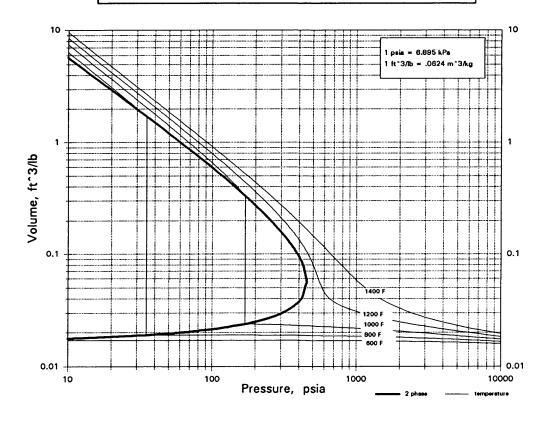


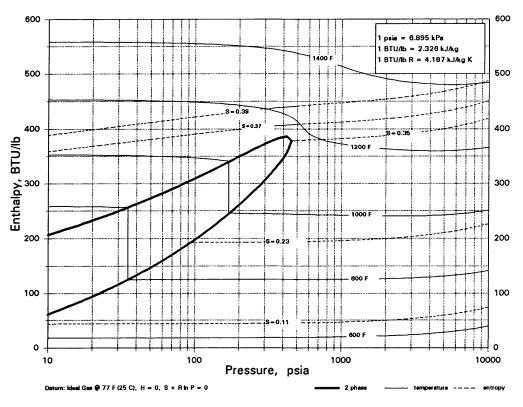




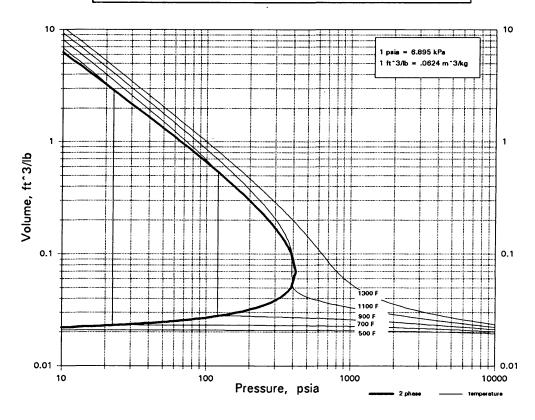


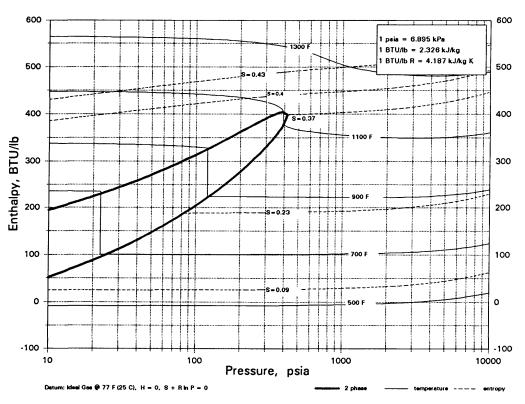




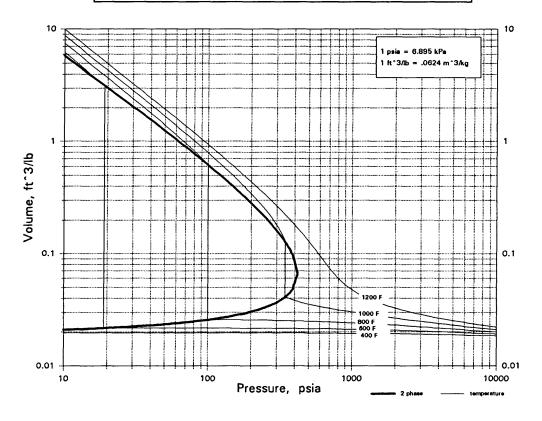


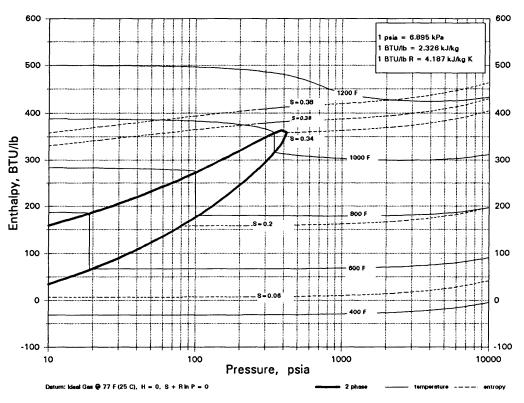




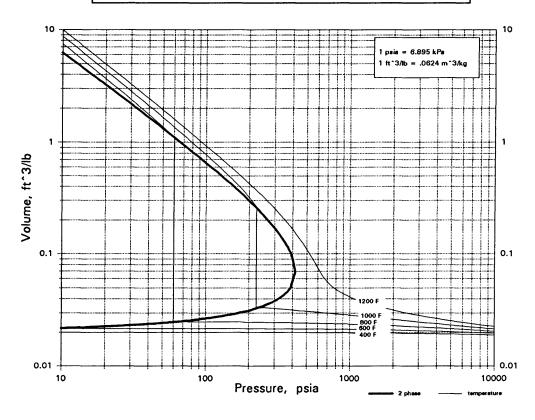


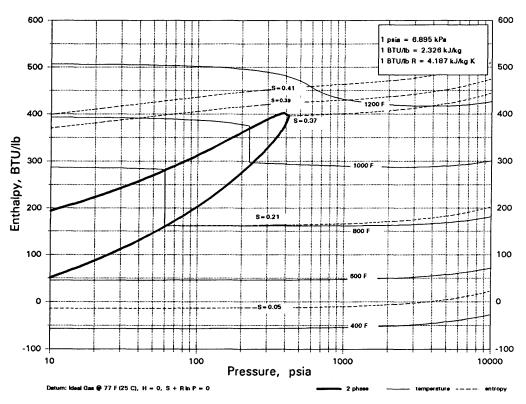




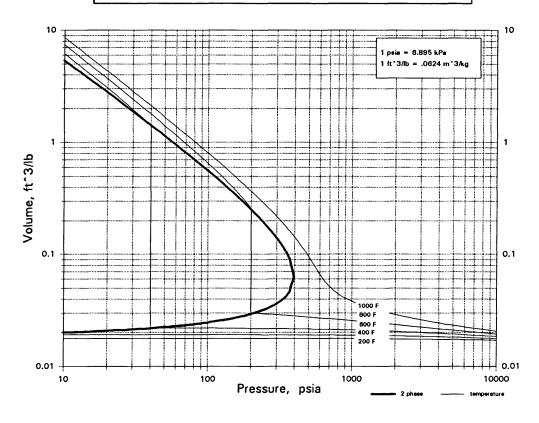


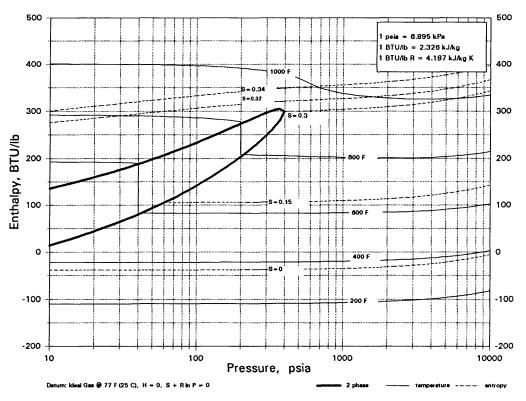




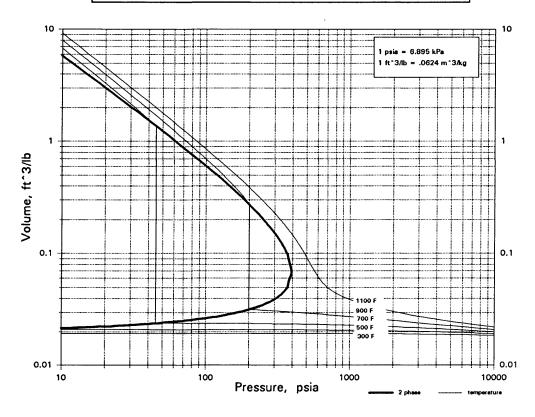


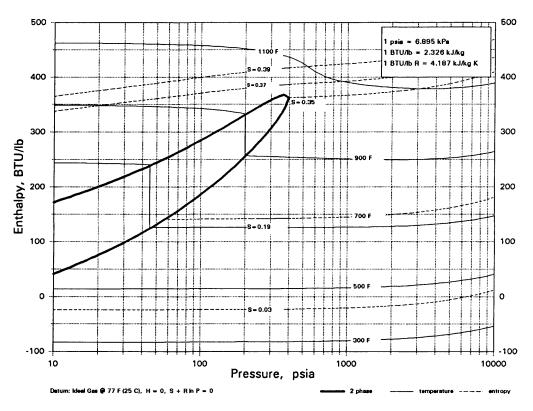




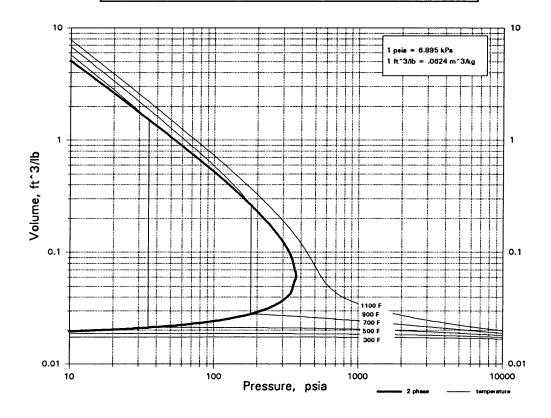


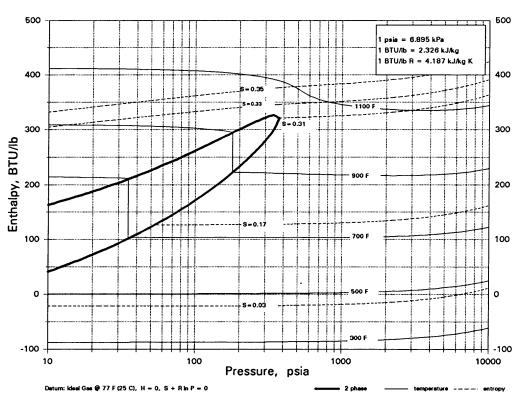




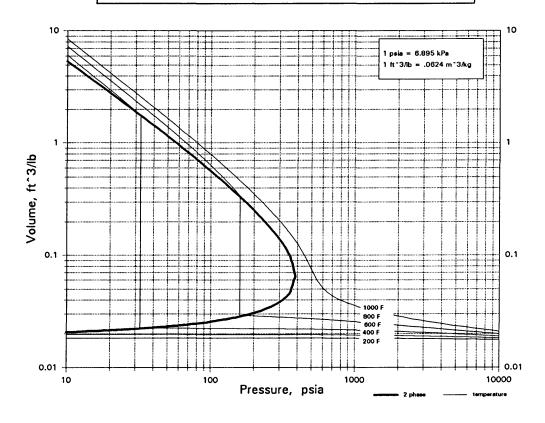


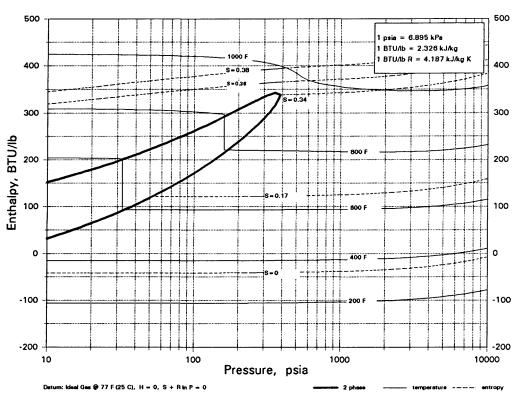




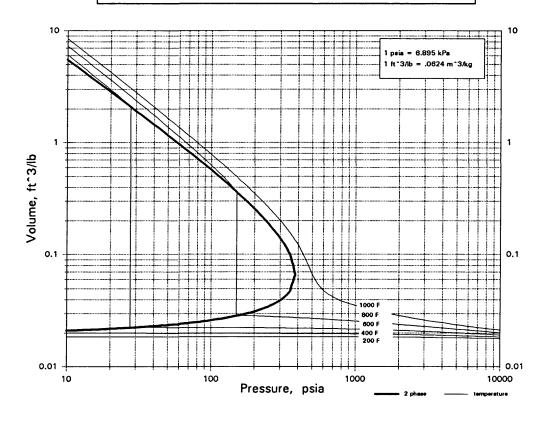


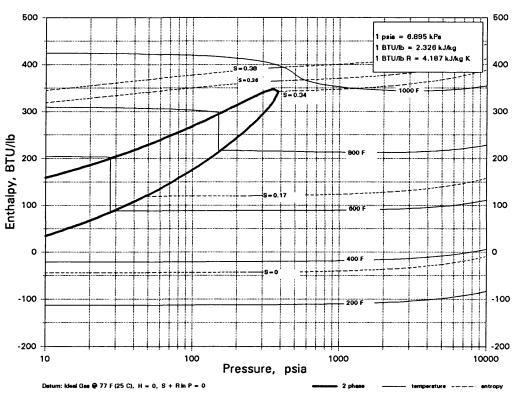




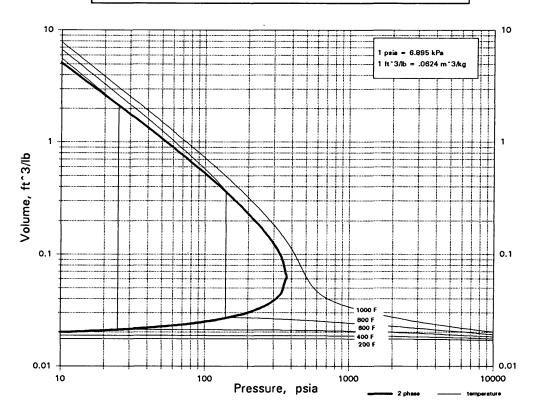


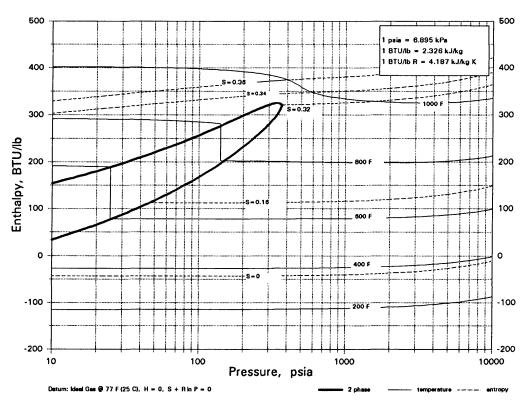




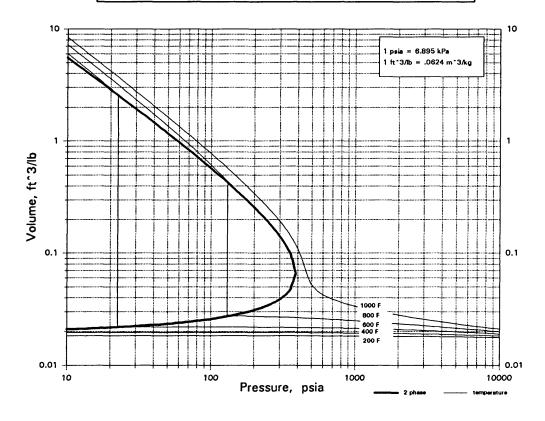


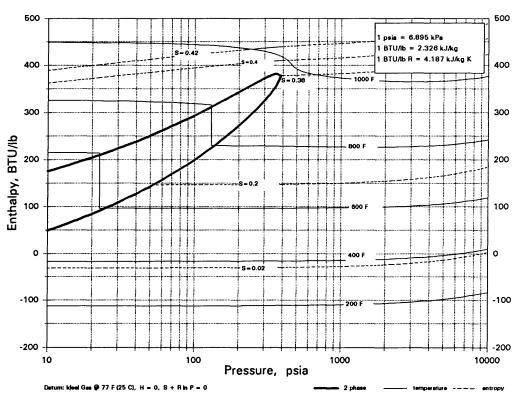




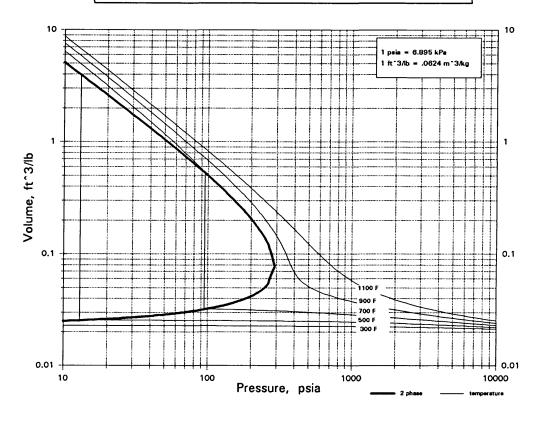


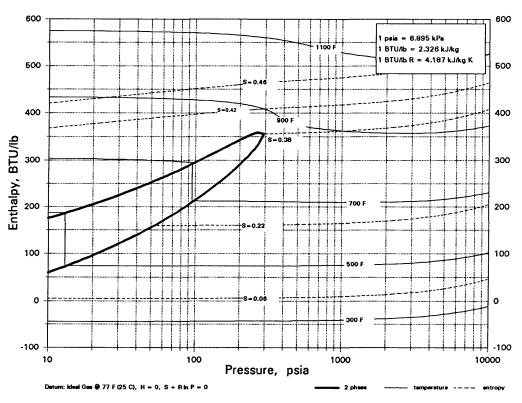




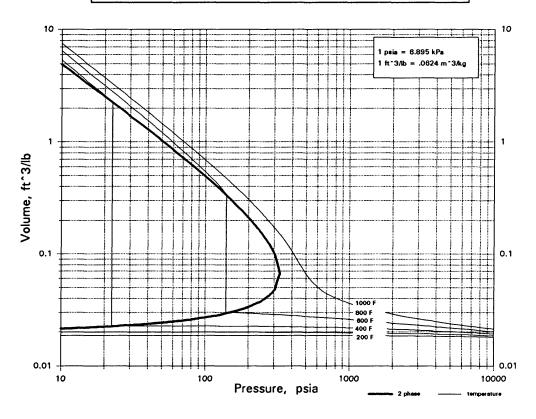


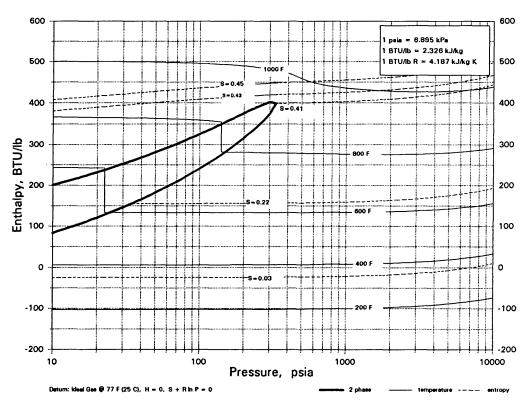




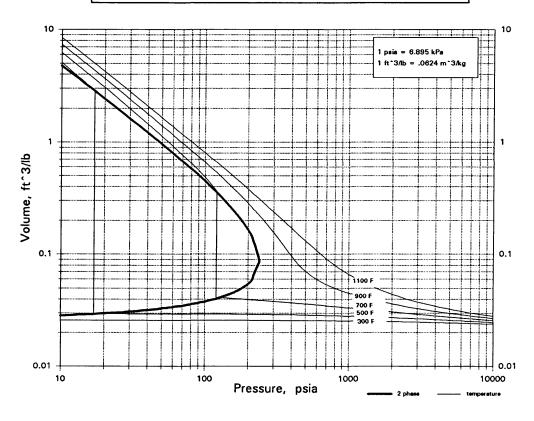


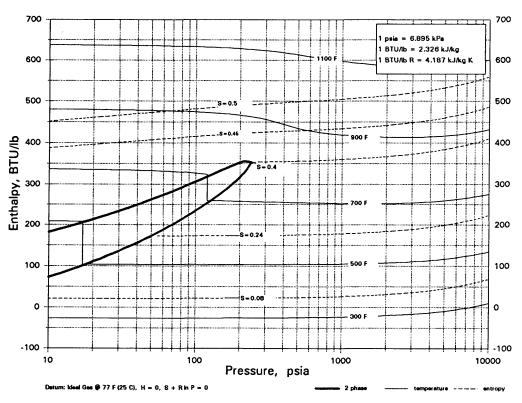




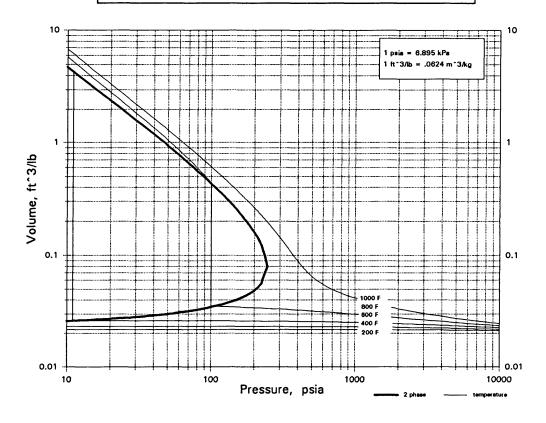


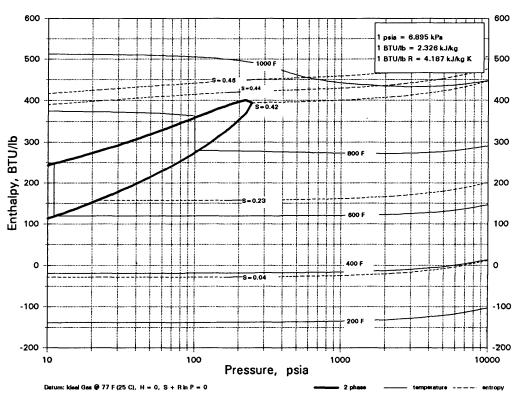


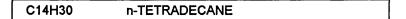


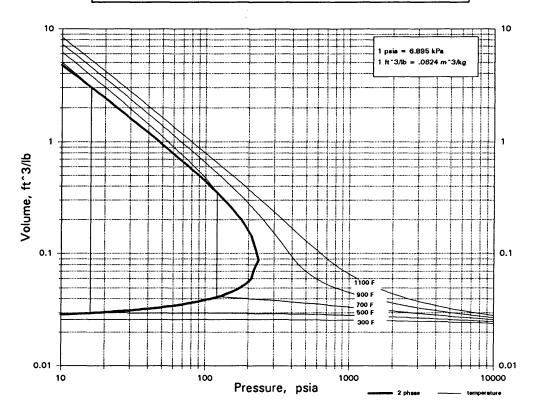


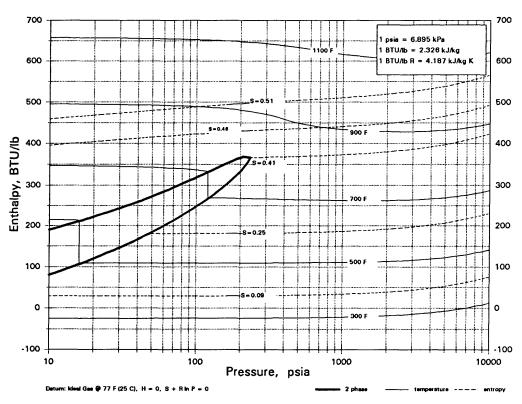
C14H28O2 n-TETRADECANOIC ACID



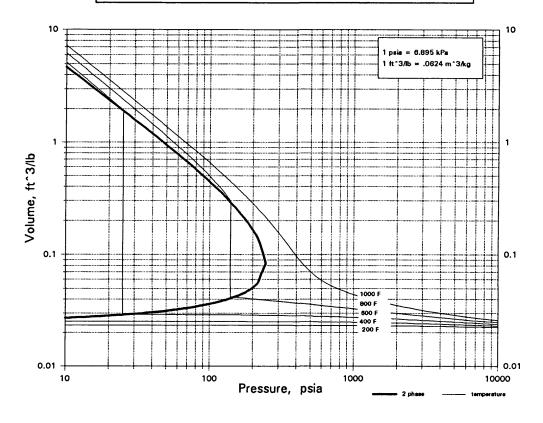


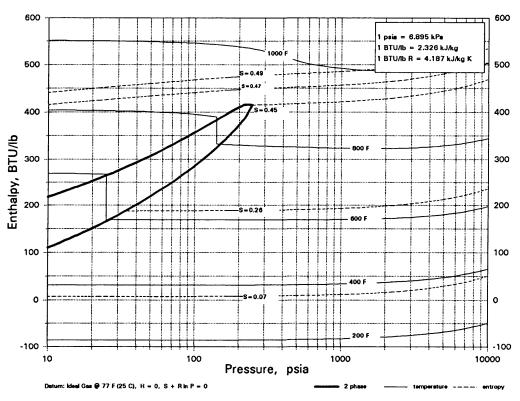




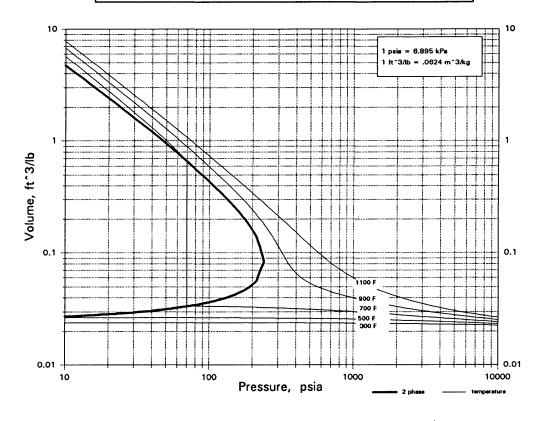


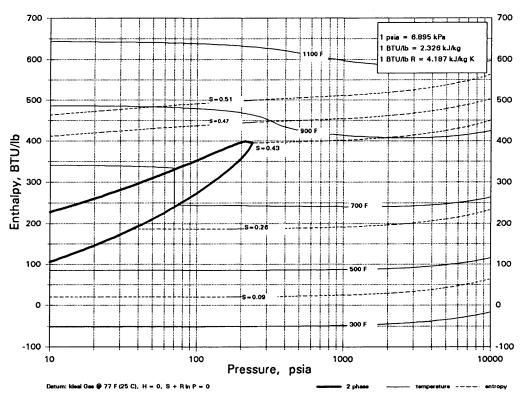




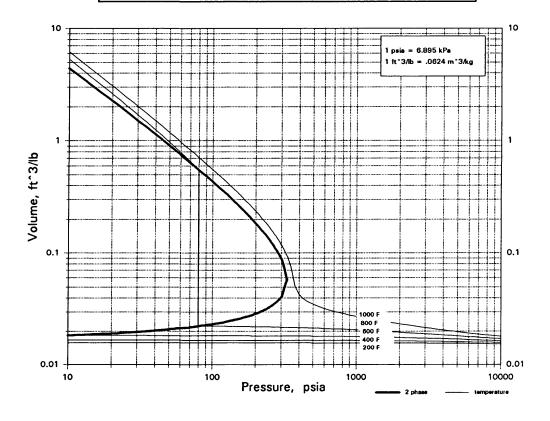


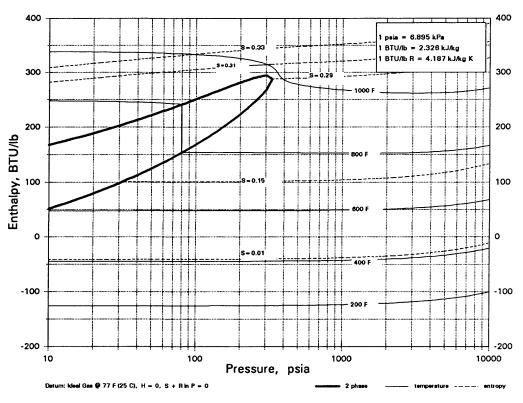




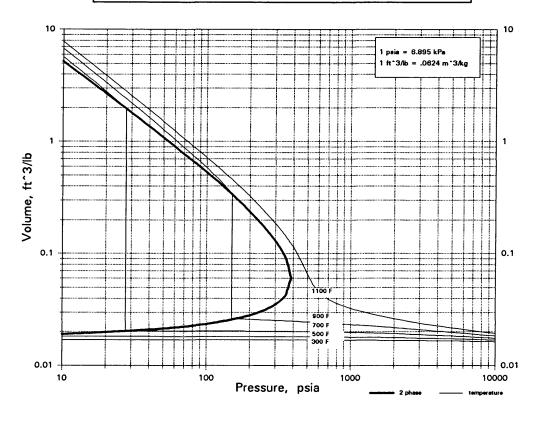


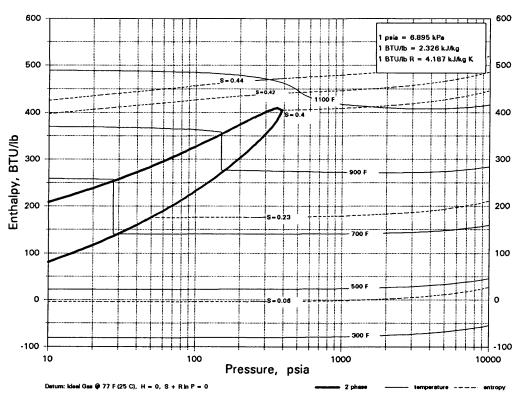
C15H10N2O2 DIPHENYLMETHANE-4-4'-DIISOCYANATE



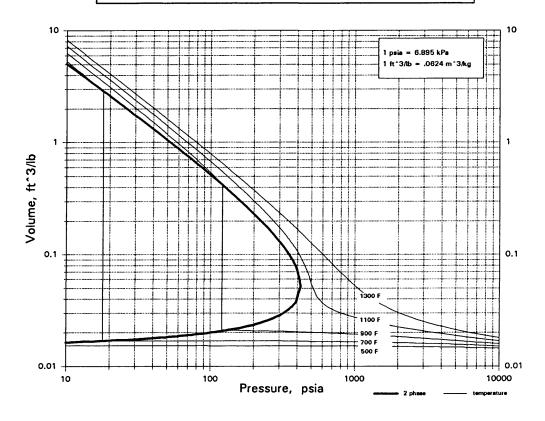


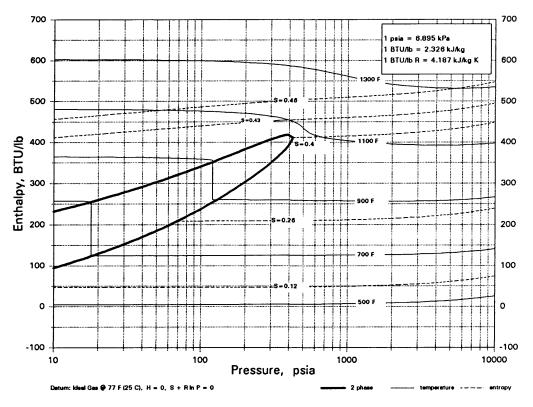




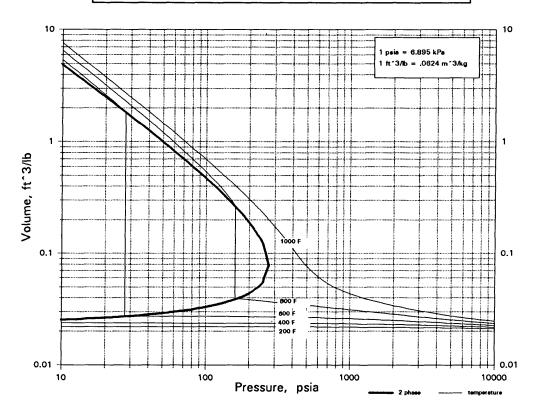


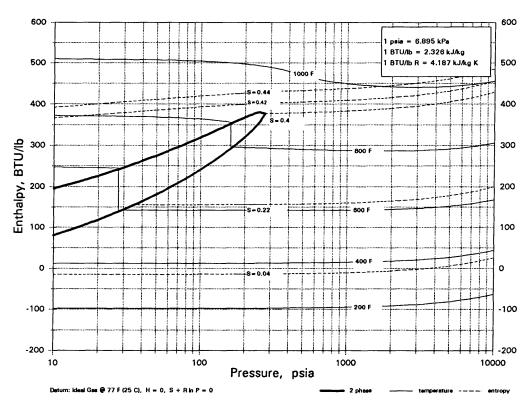




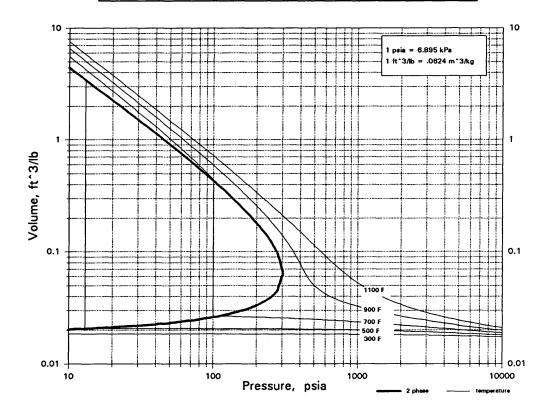


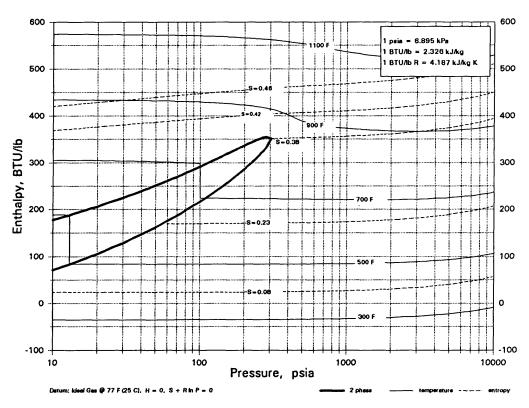


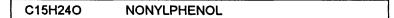


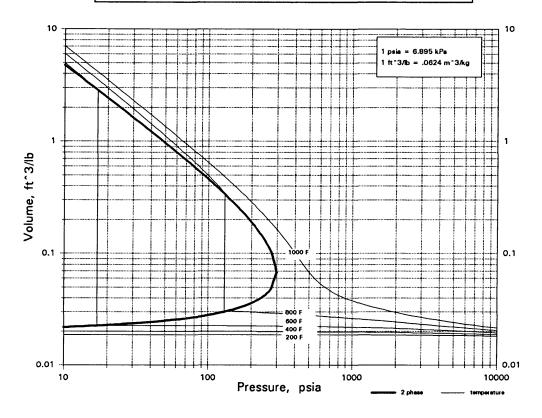


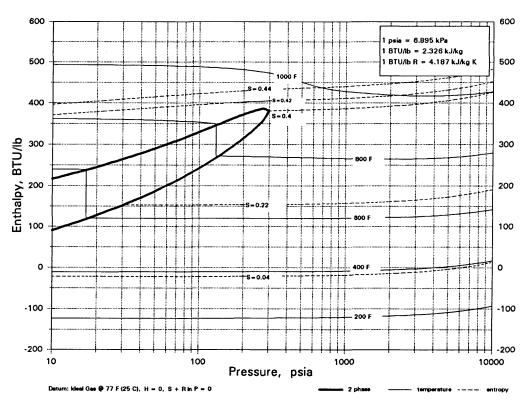




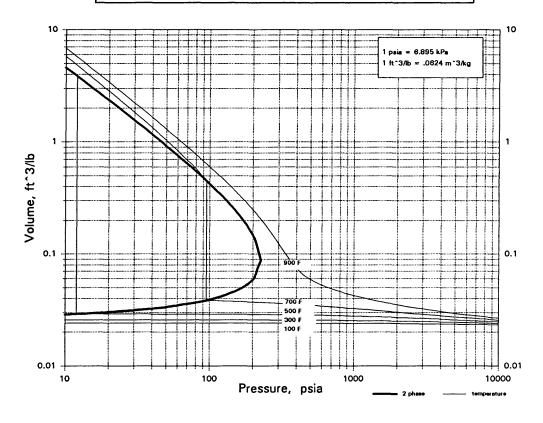


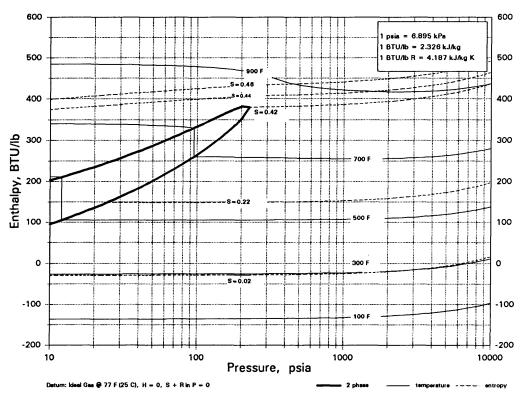




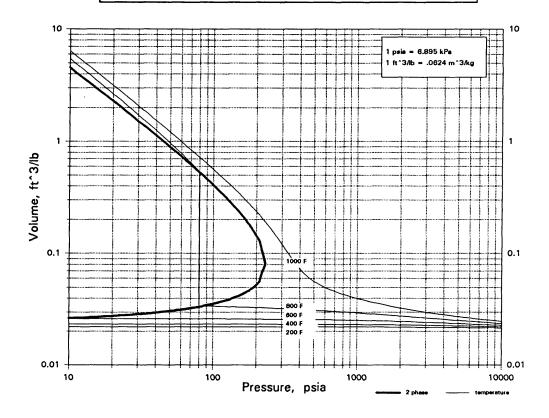


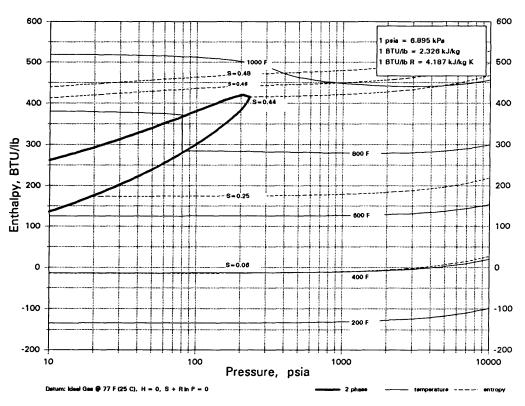




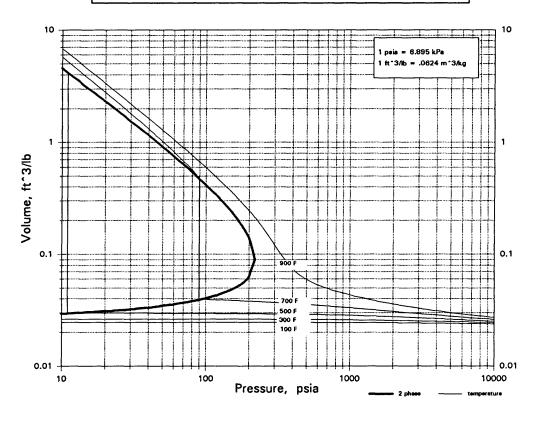


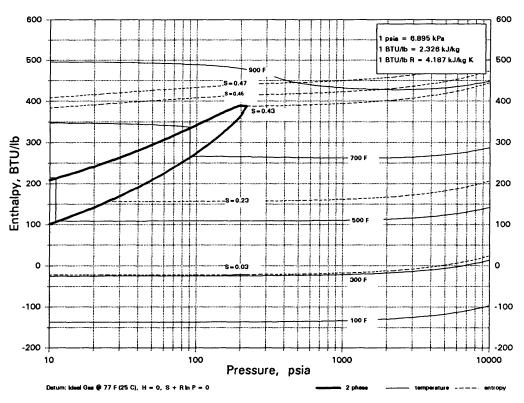
C15H30O2 PENTADECANOIC ACID



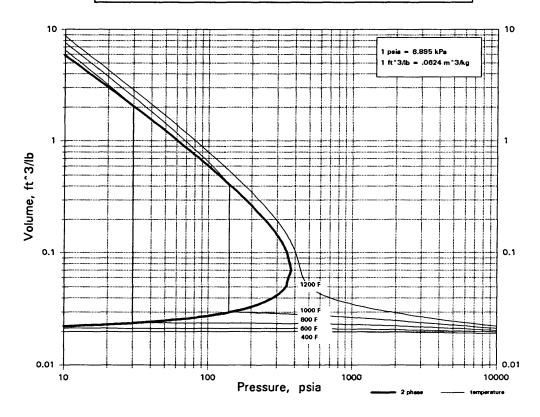


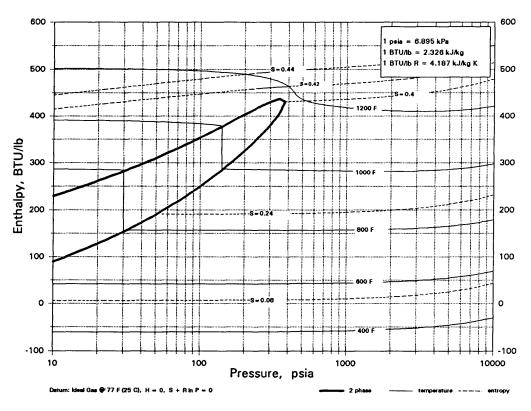




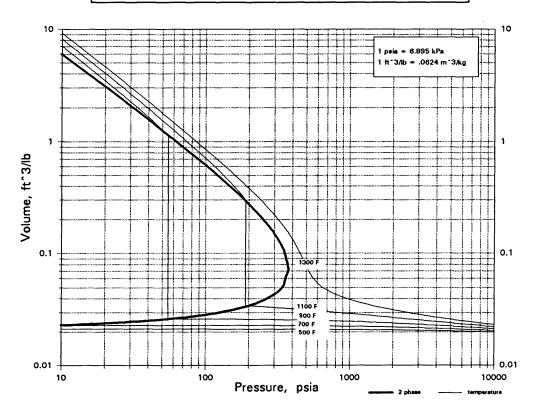


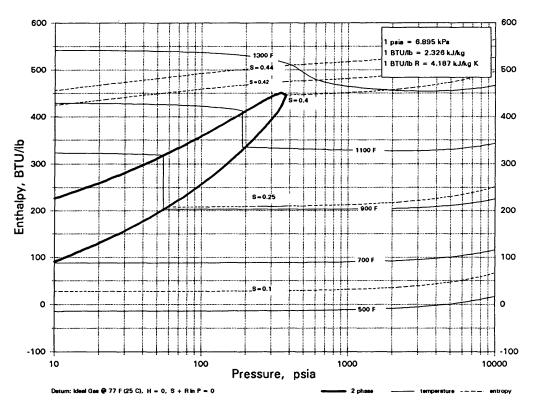


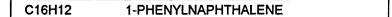


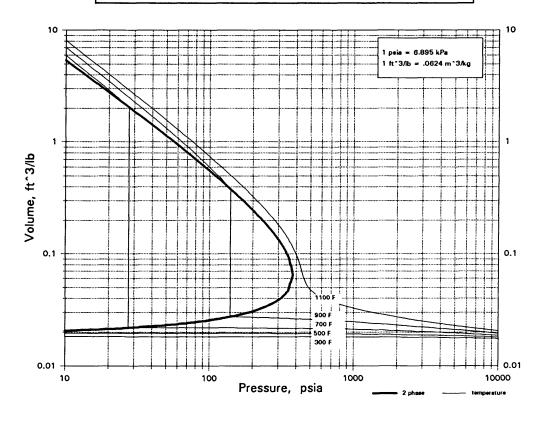


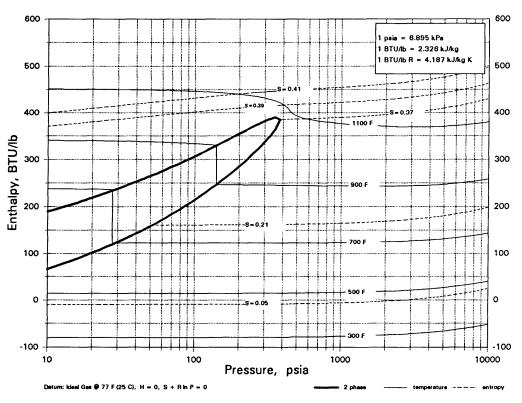




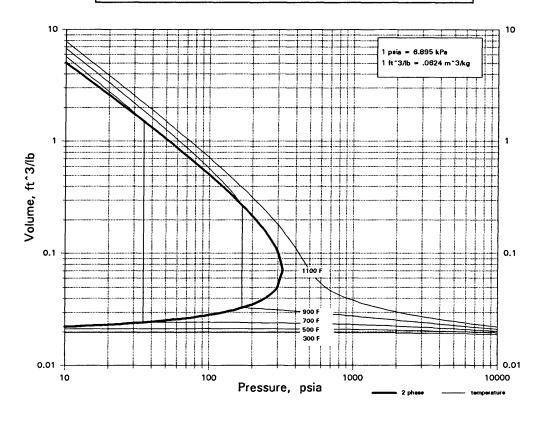


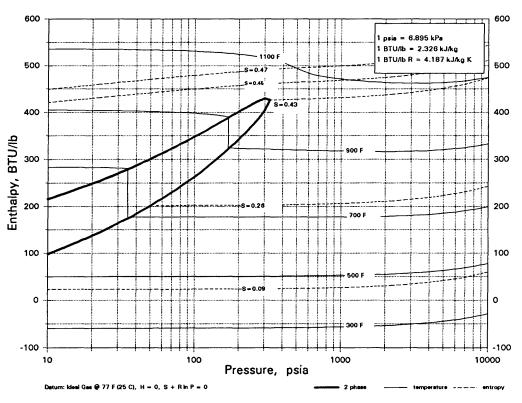




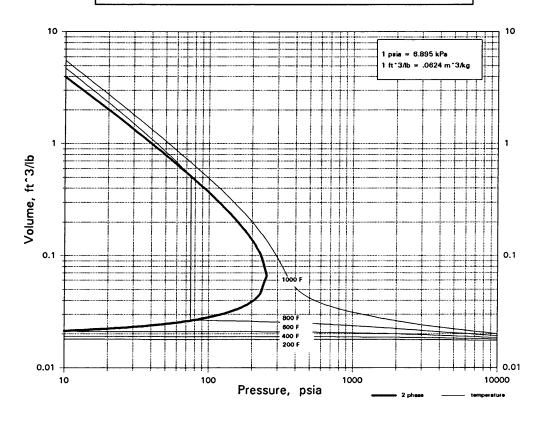


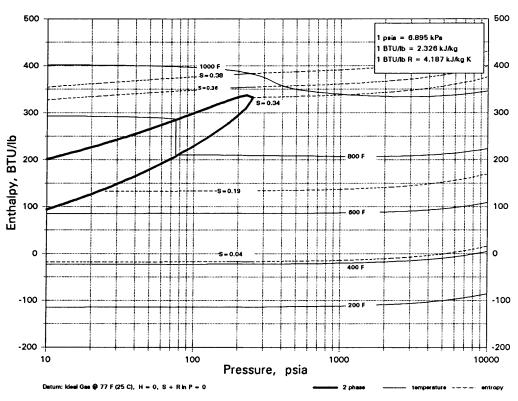




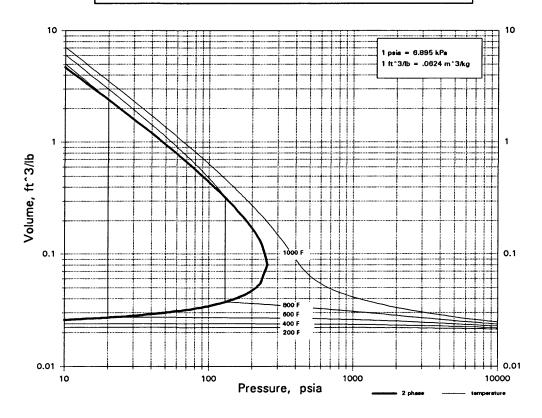


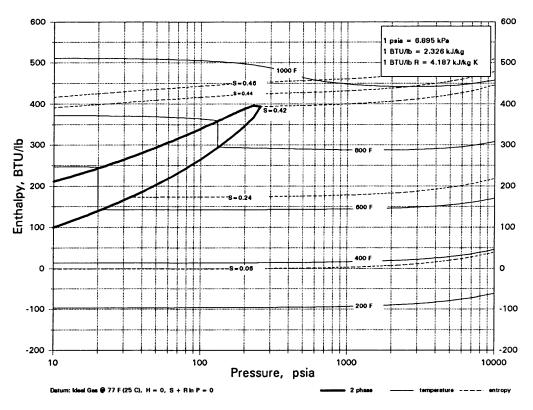
C16H22O4 DIBUTYL PHTHALATE

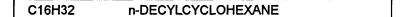


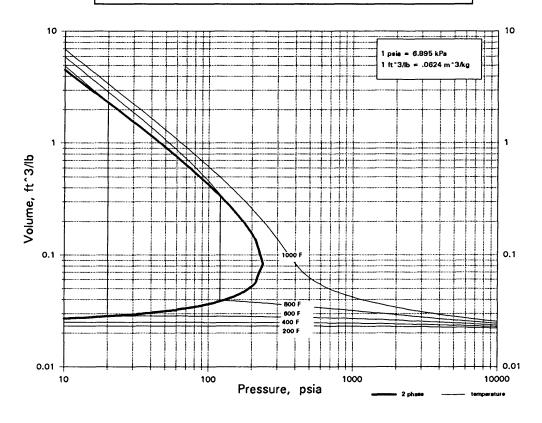


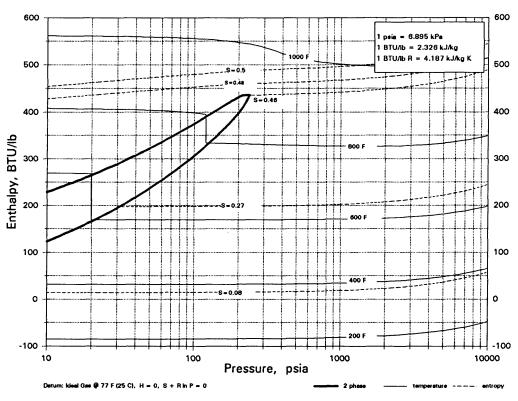




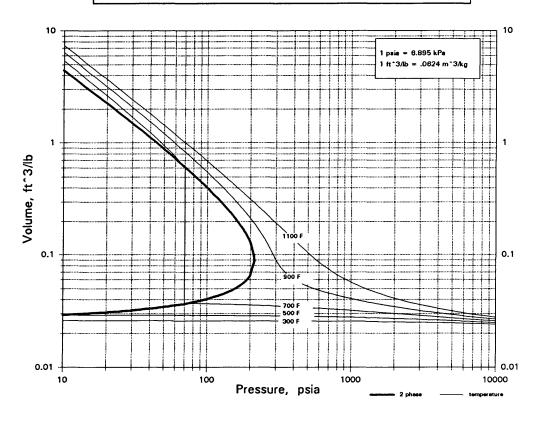


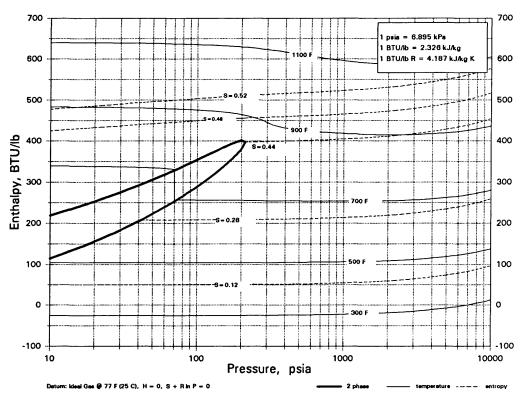




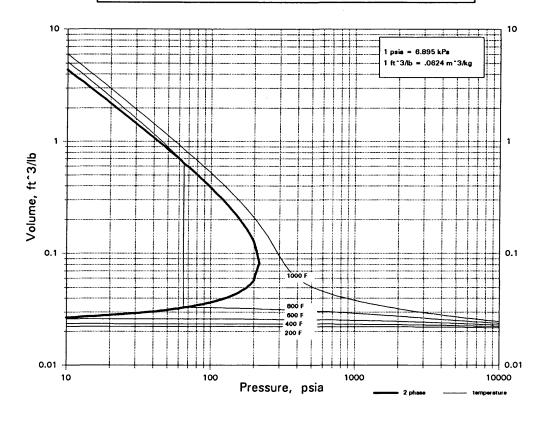


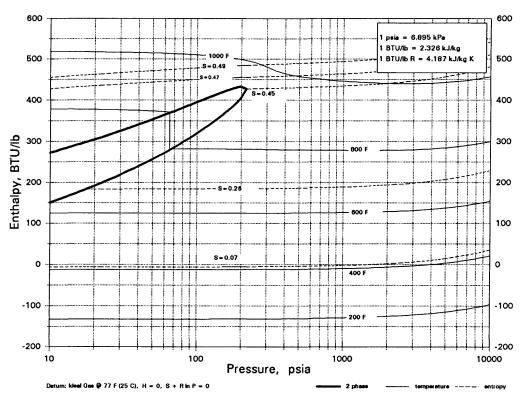




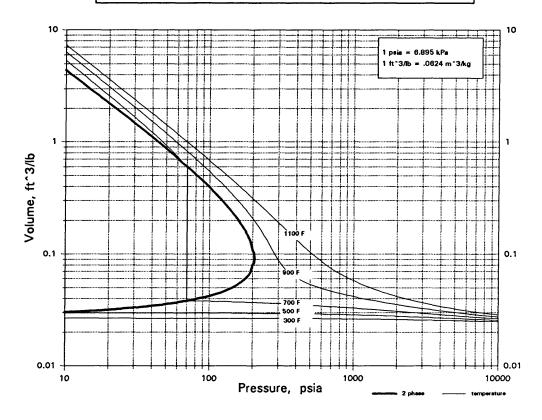


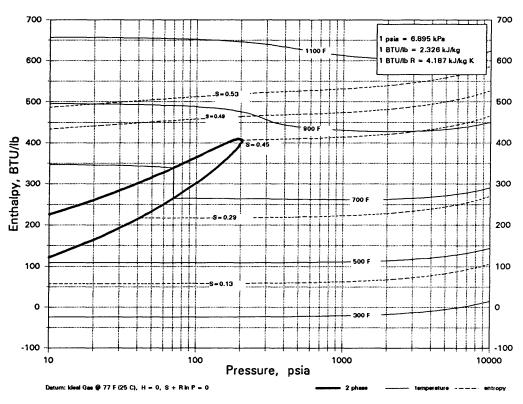




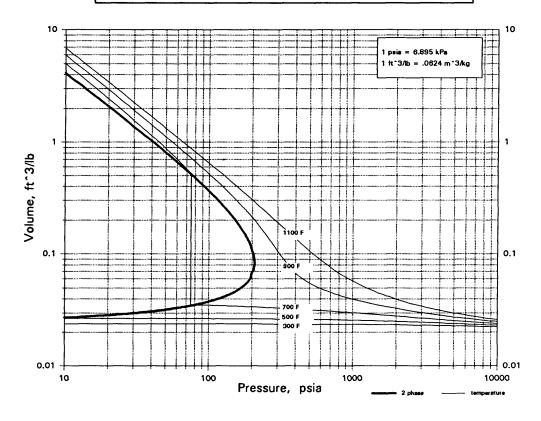


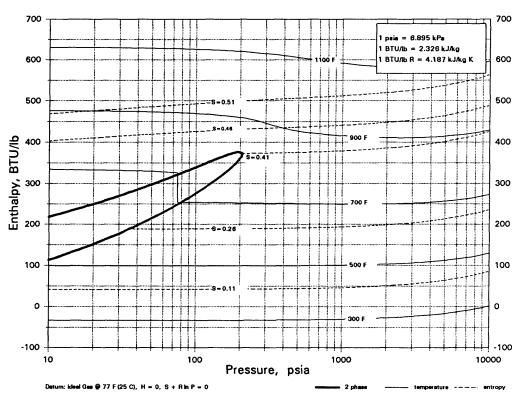




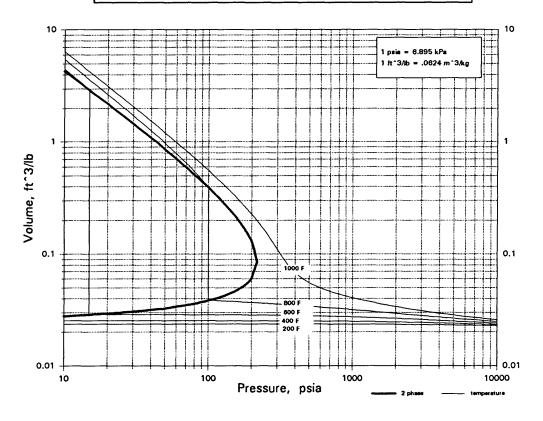


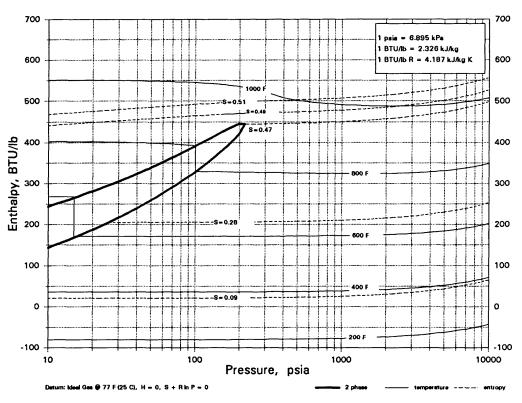




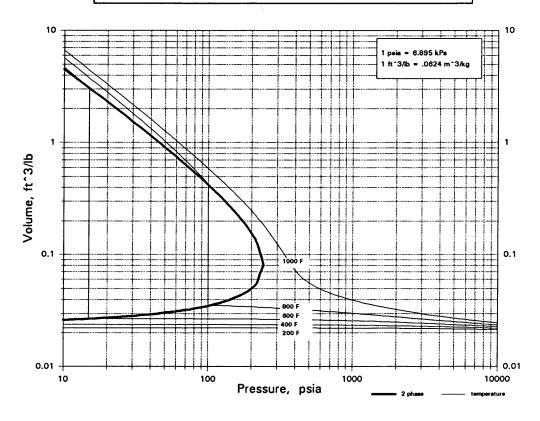


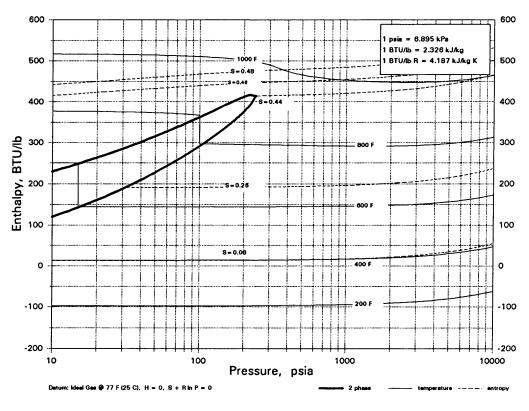




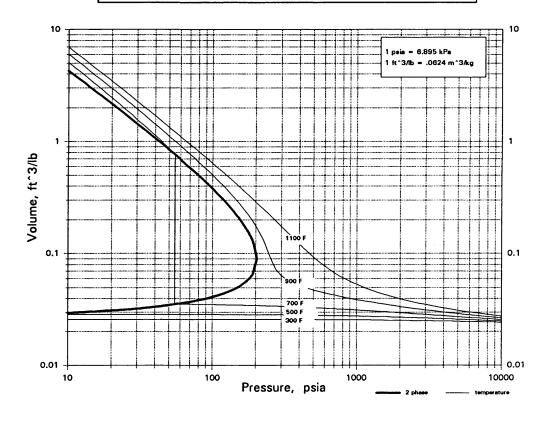


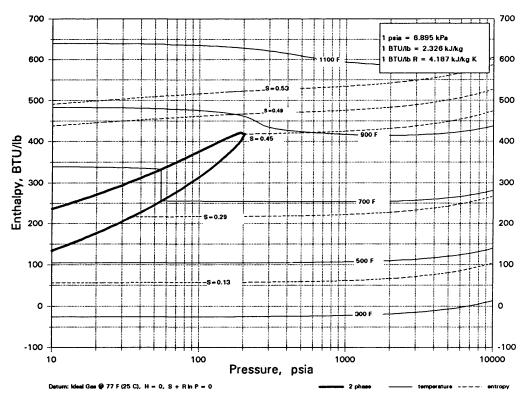




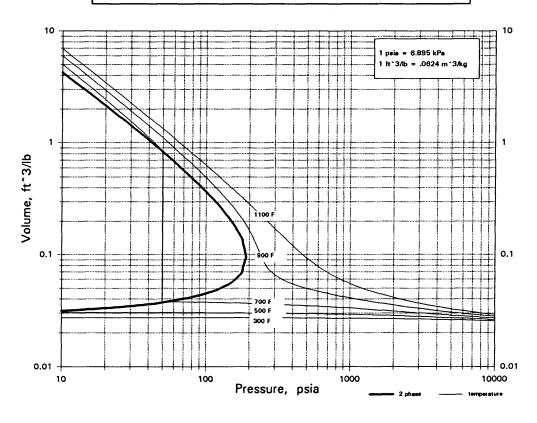


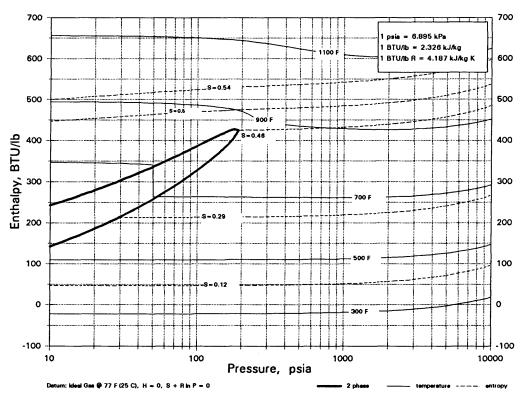




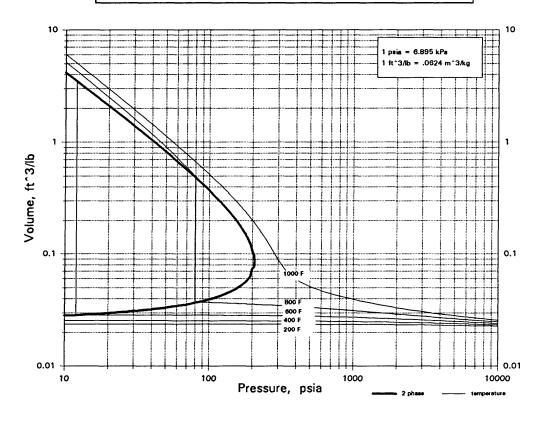


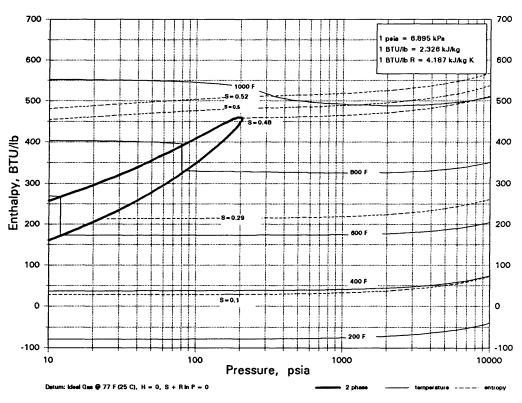




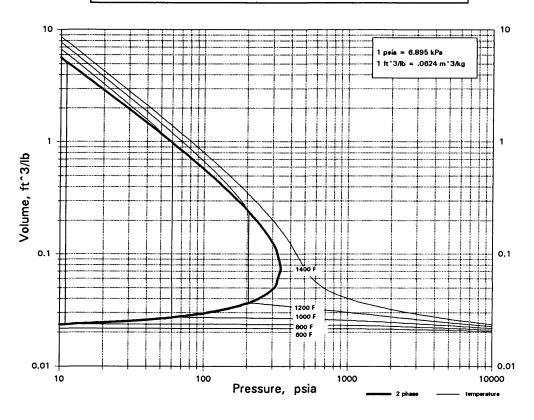


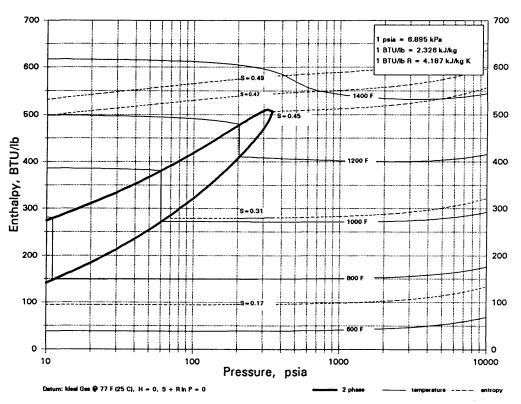




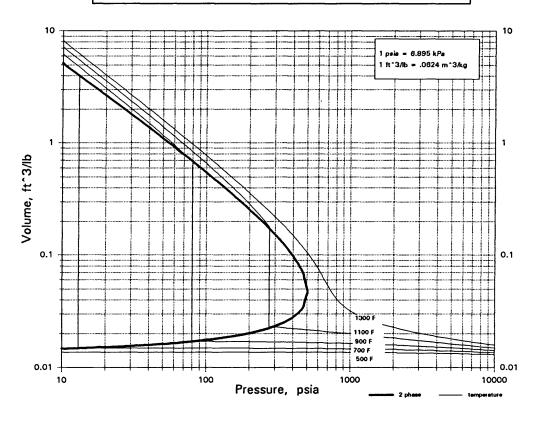


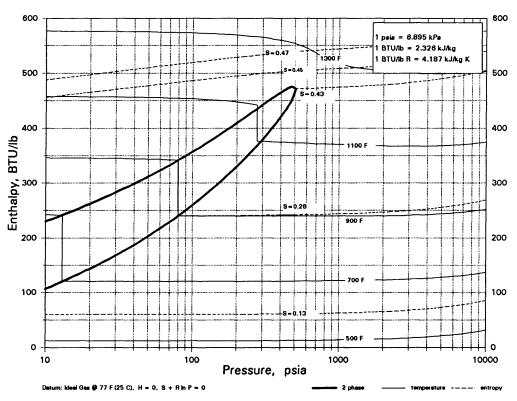


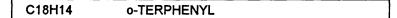


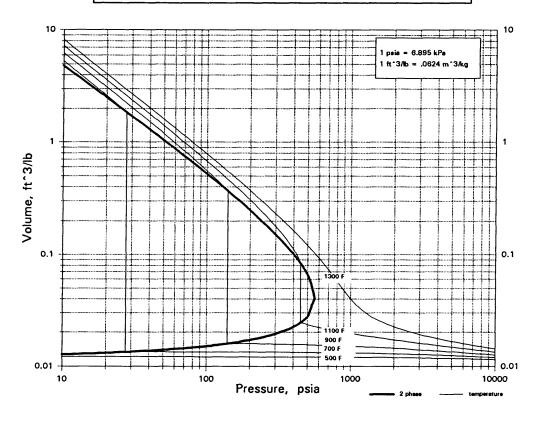


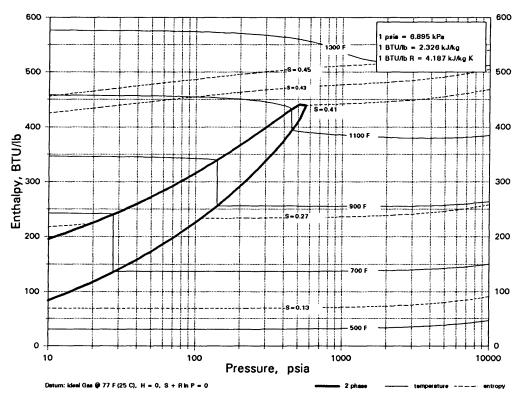


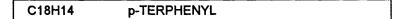


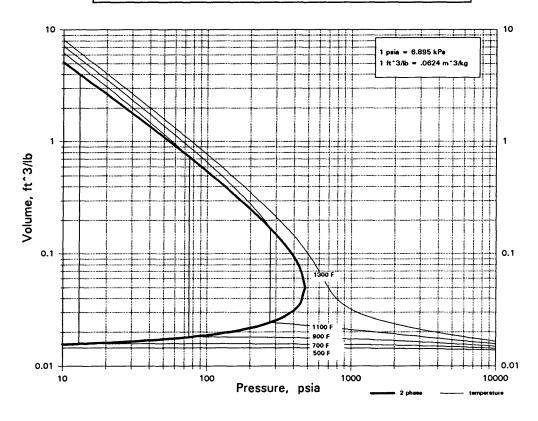


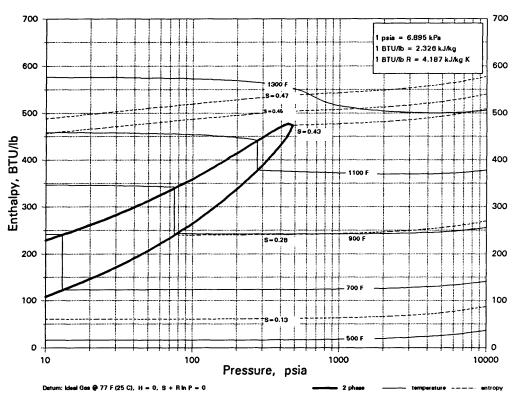




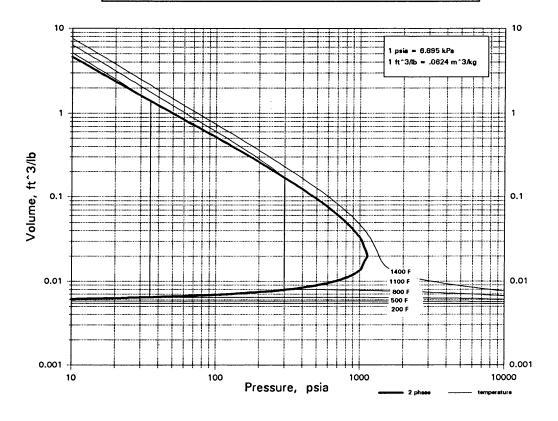


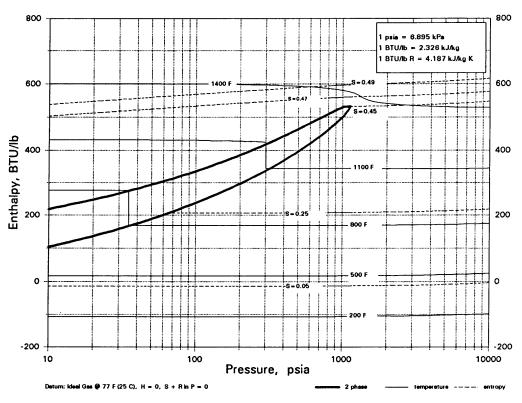












C18H15O4P TRIPHENYL PHOSPHATE

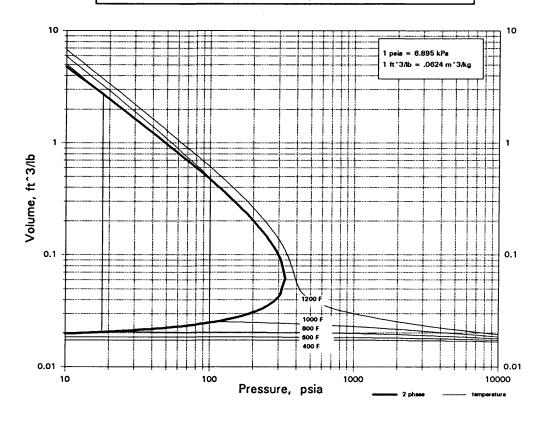
- 1. Molecular Weight, lb/mol...... 326.29
- 2. Boiling Point, K...... 686.65

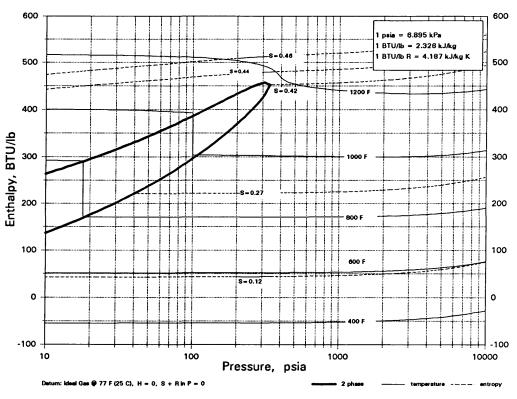
Critical data (Tc, Pc) are not available.

- 1. Molecular Weight, lb/mol...... 326.29
- 2. Boiling Point, K...... 686.65

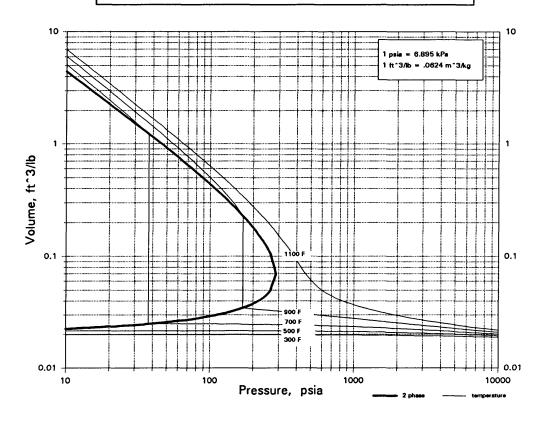
Critical data (Tc, Pc) are not available.

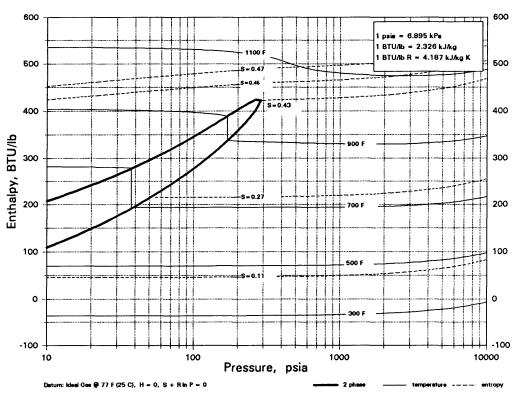
C18H16N2 N-N'-DIPHENYL-p-PHENYLENEDIAMINE



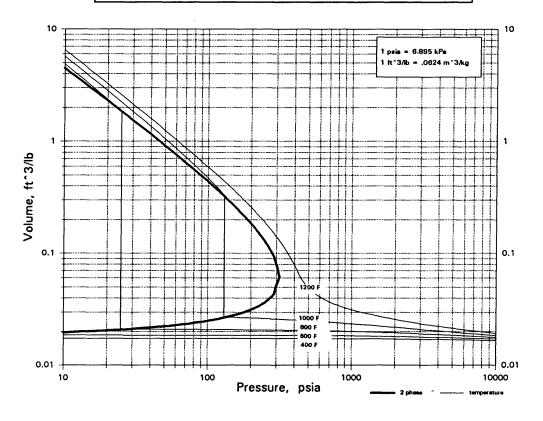


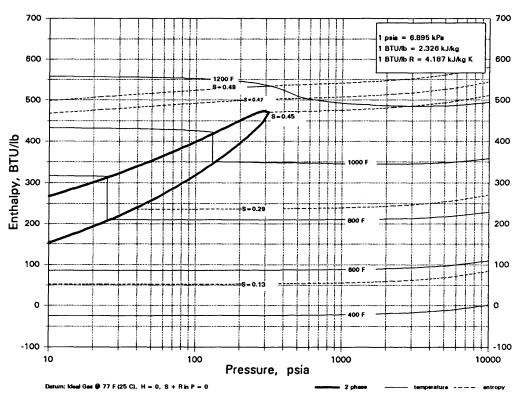




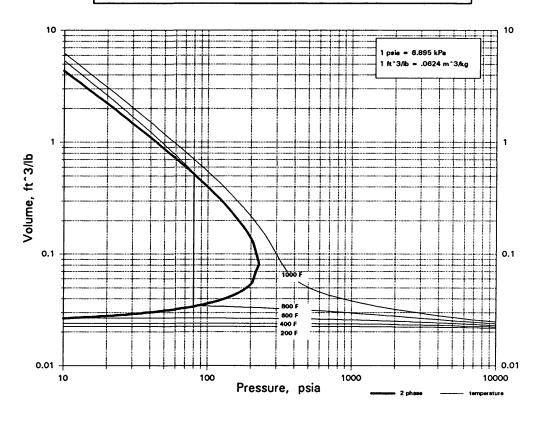


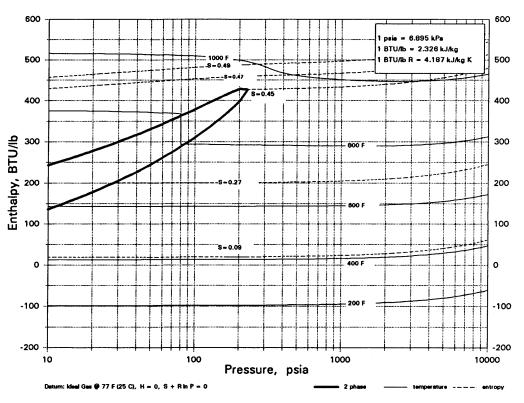




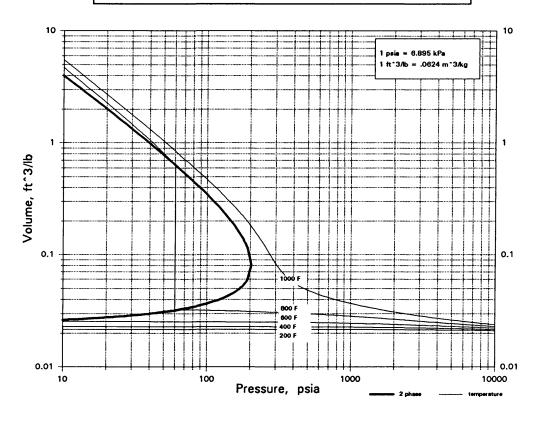


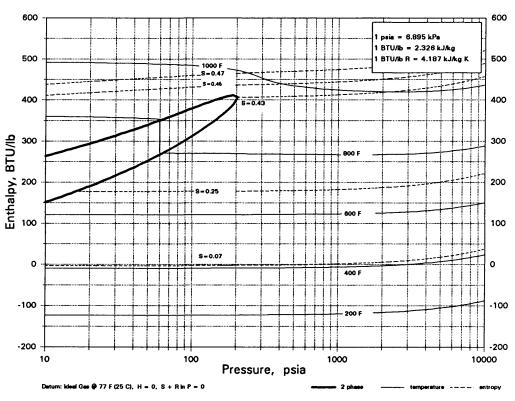




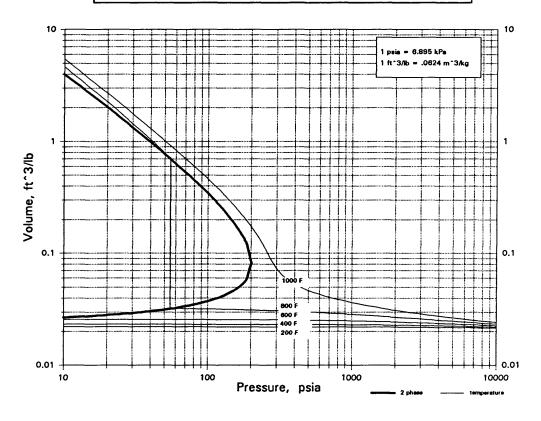


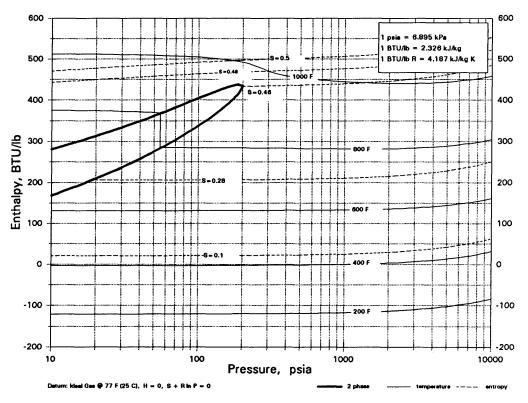




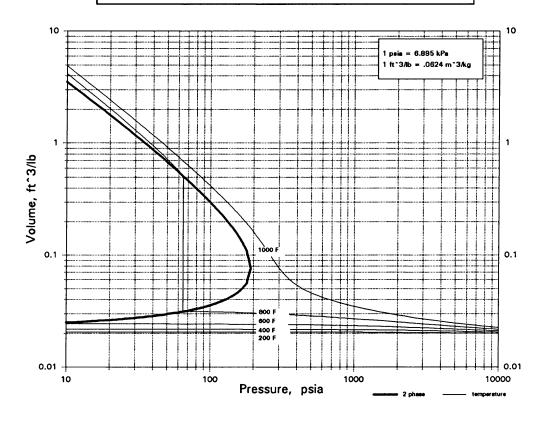


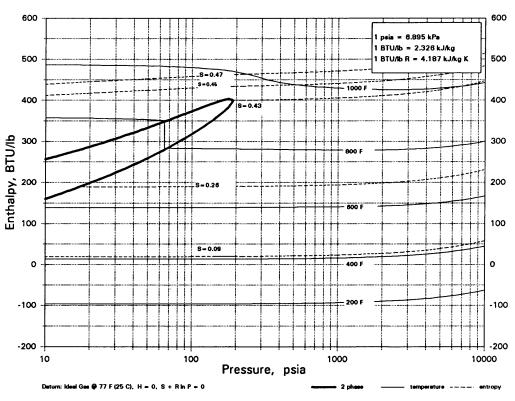




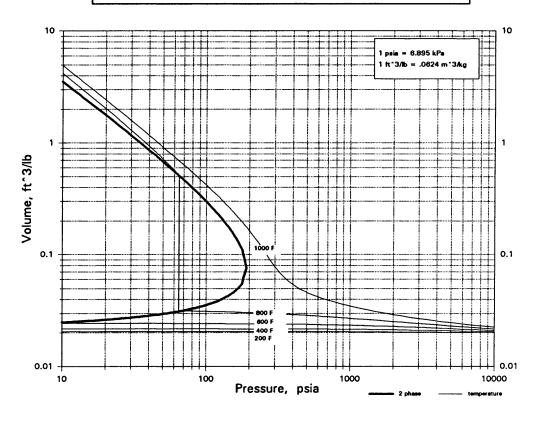


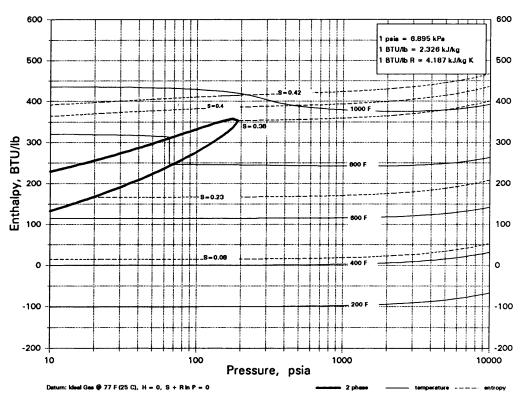
C18H34O4 DIBUTYL SEBACATE



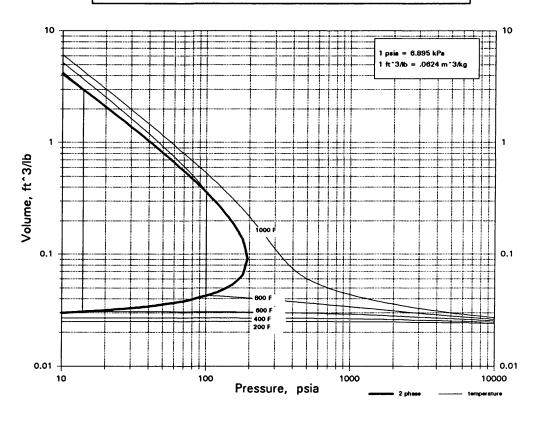


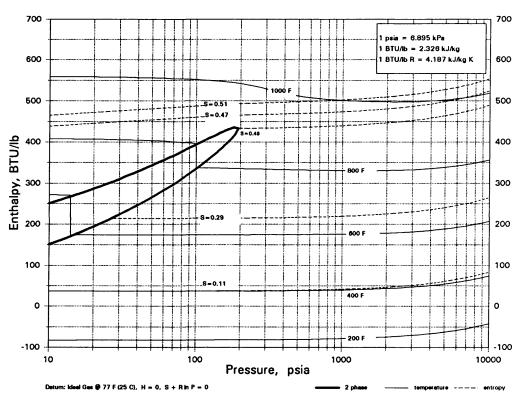




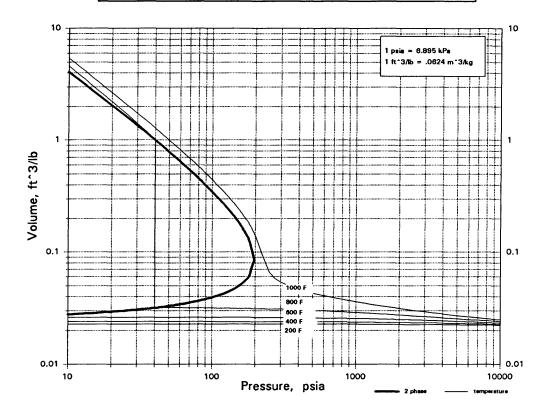


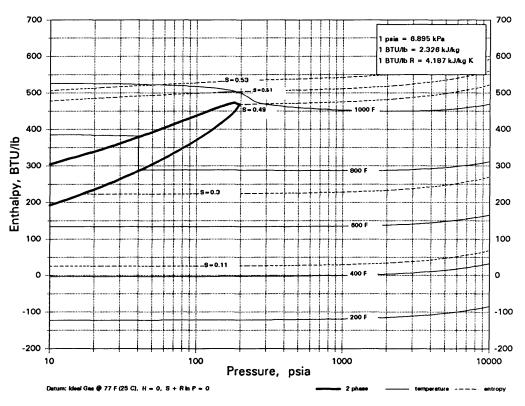




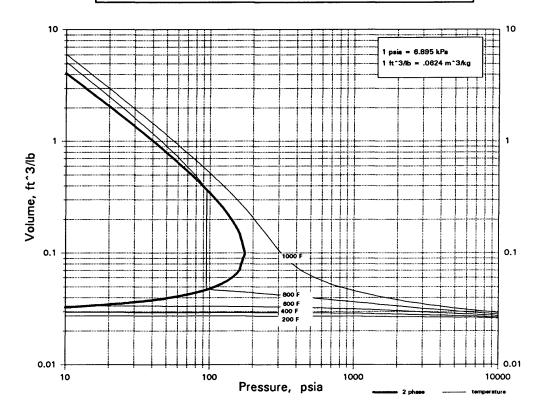


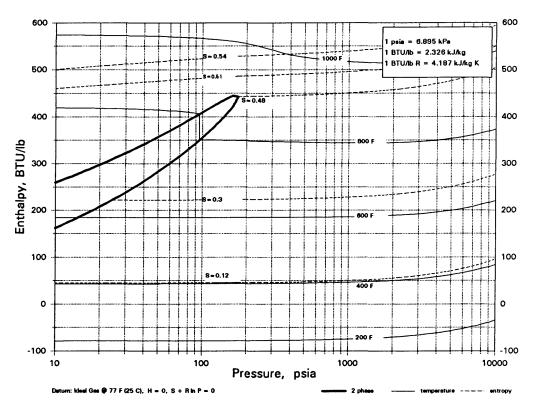




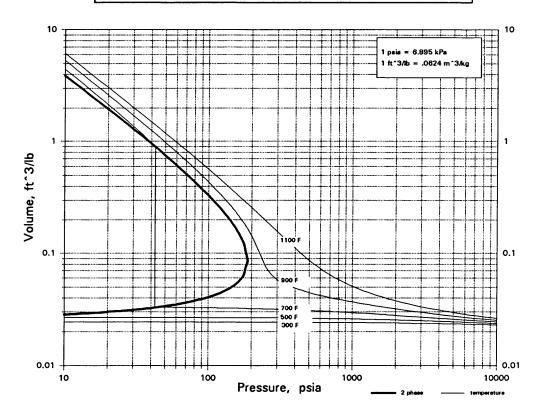


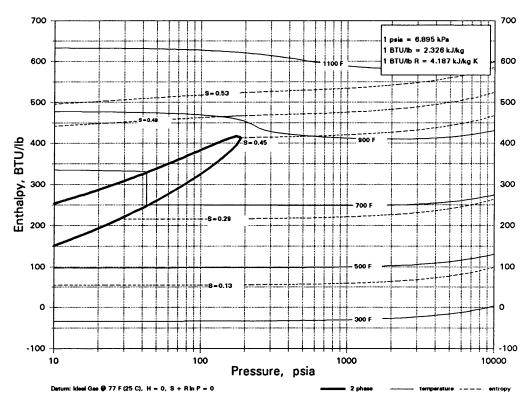




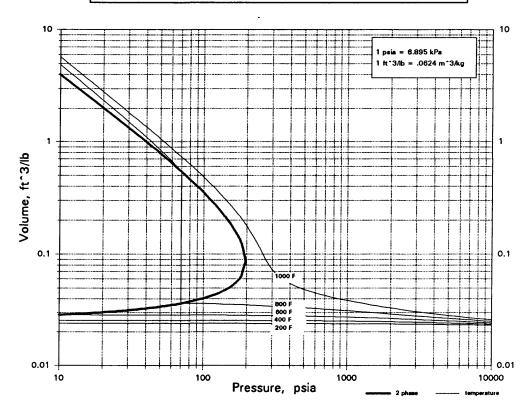


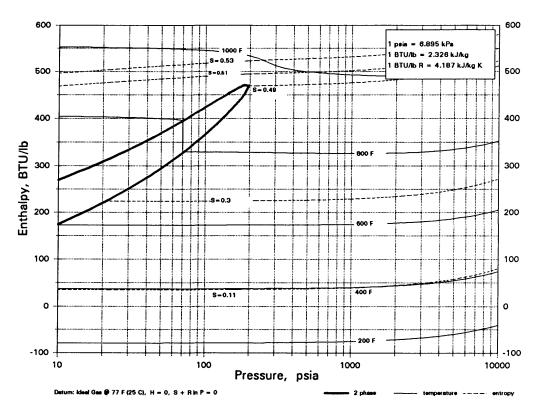




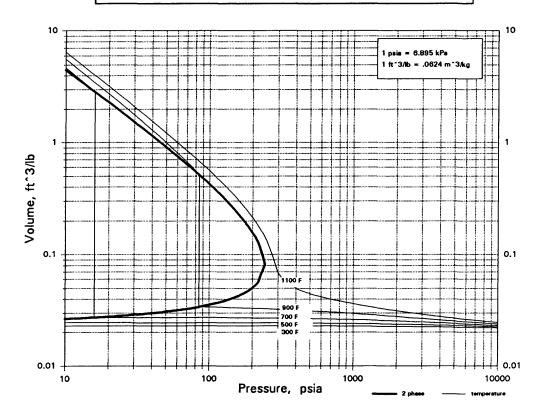


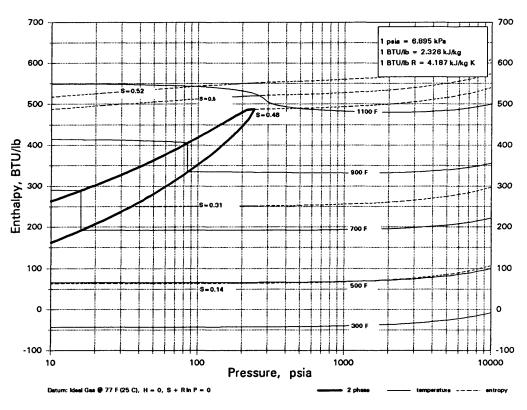




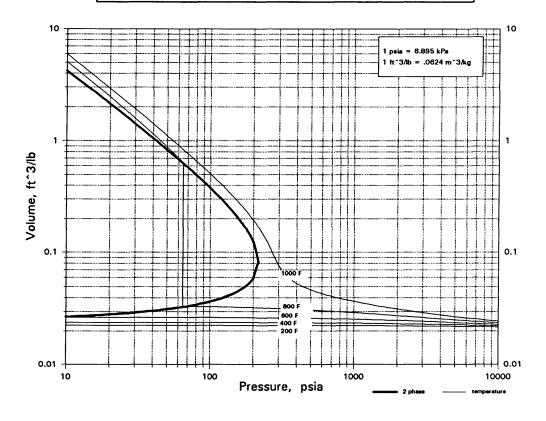


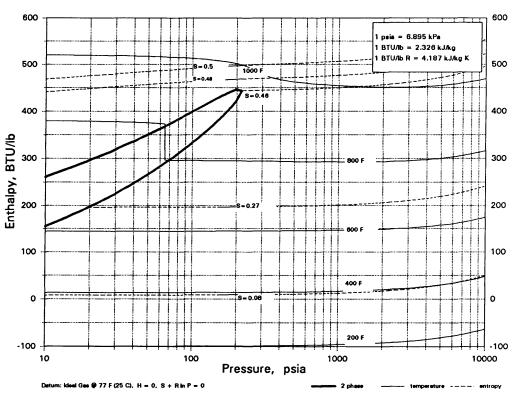




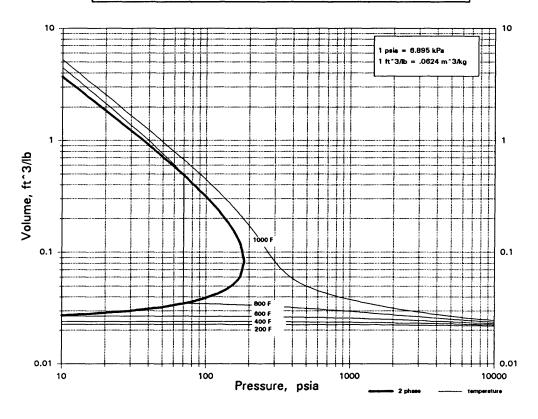


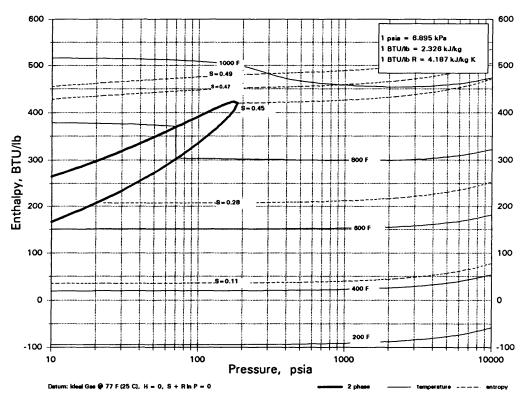




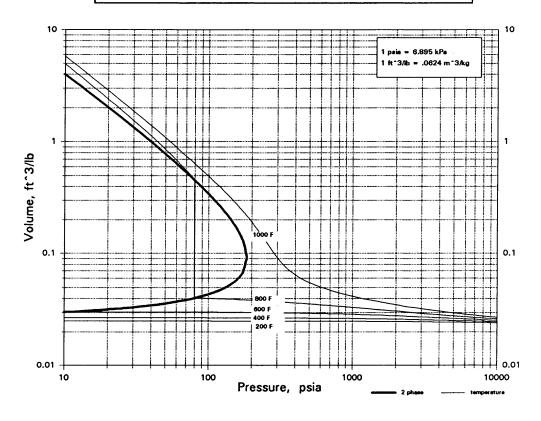


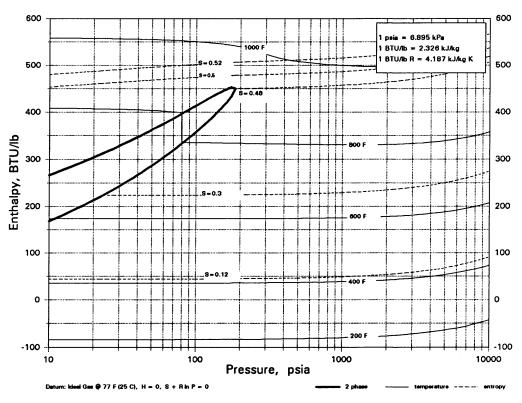




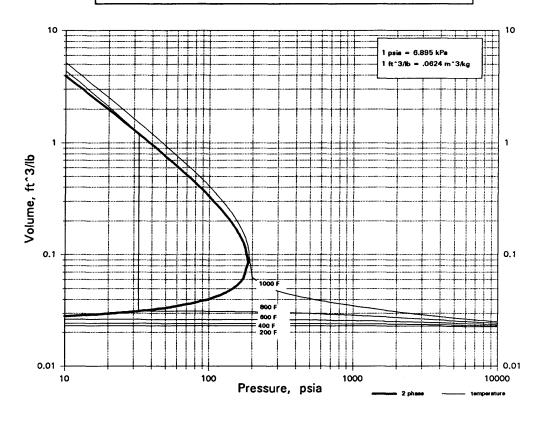


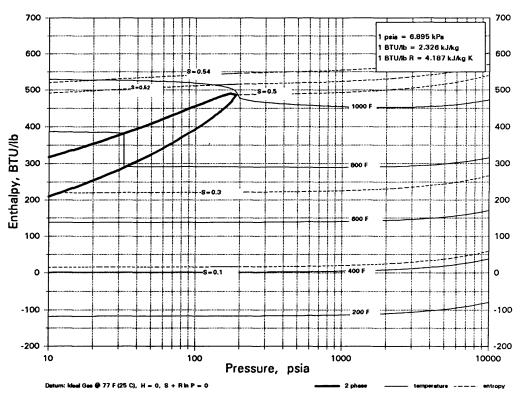




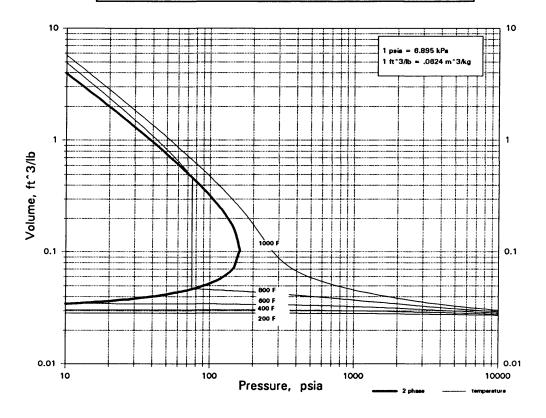


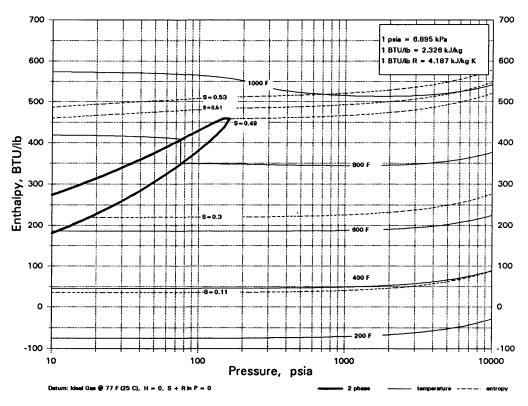




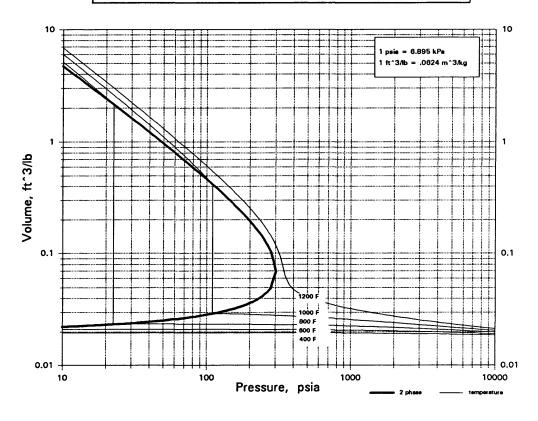


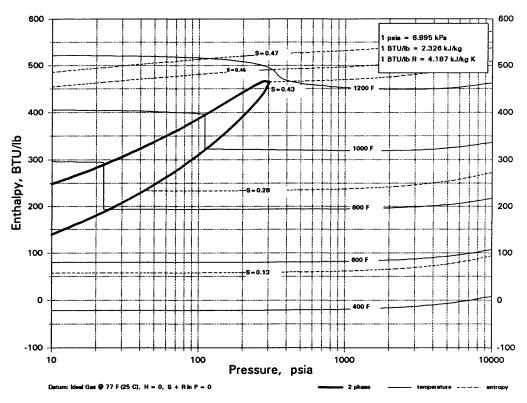


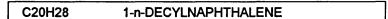


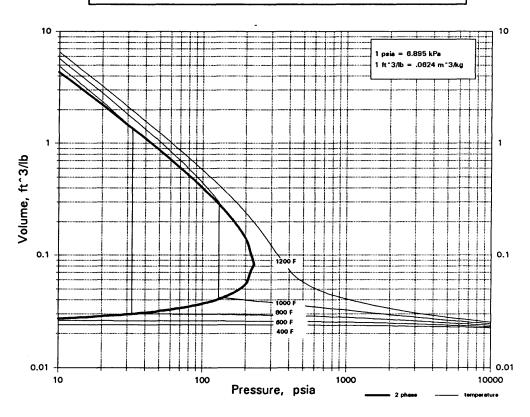


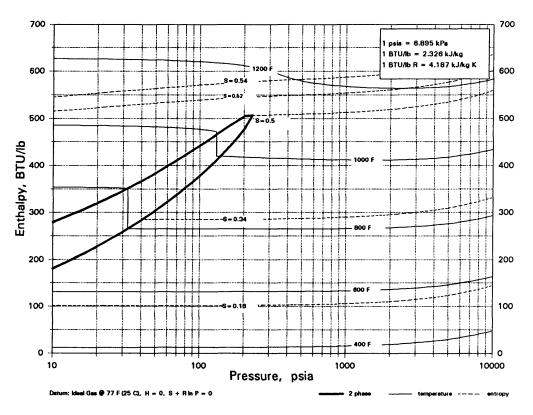




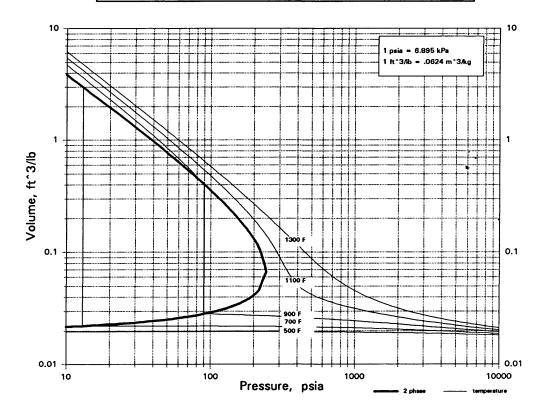


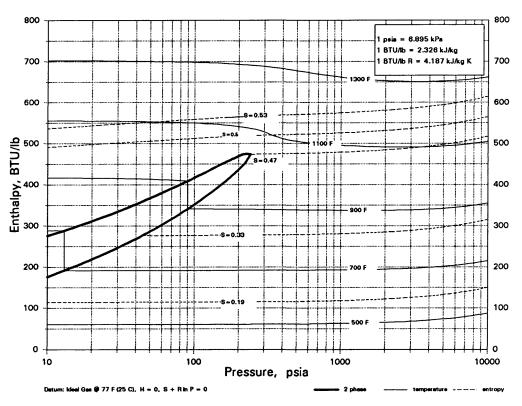




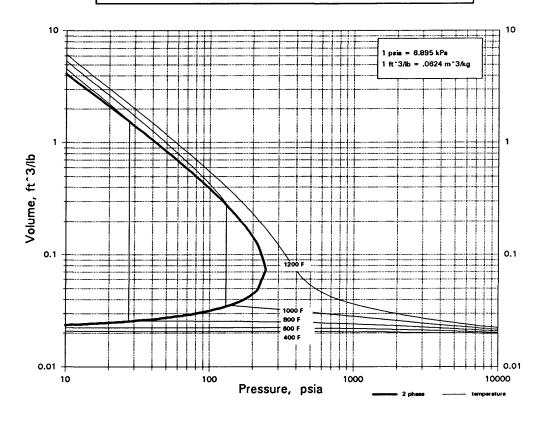


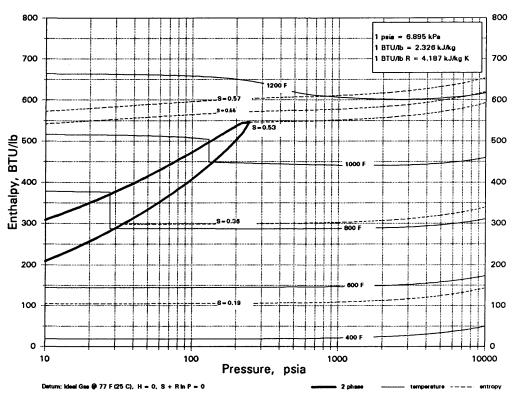




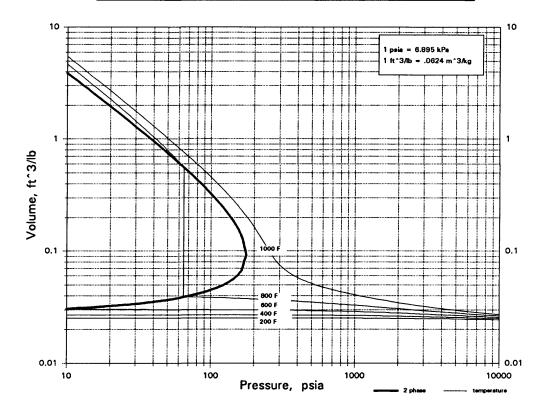


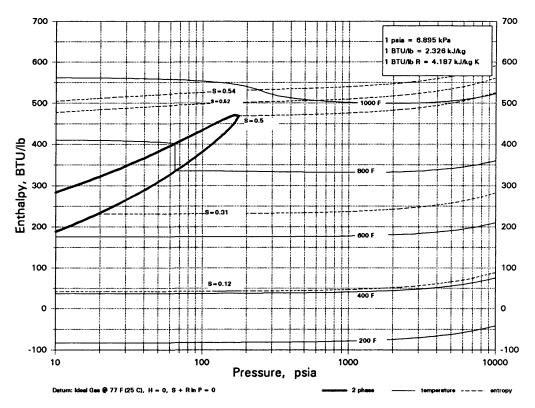




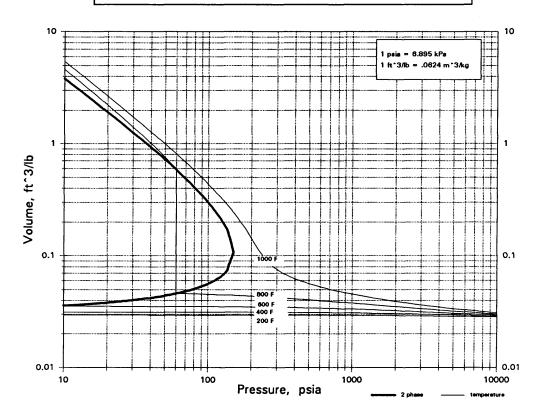


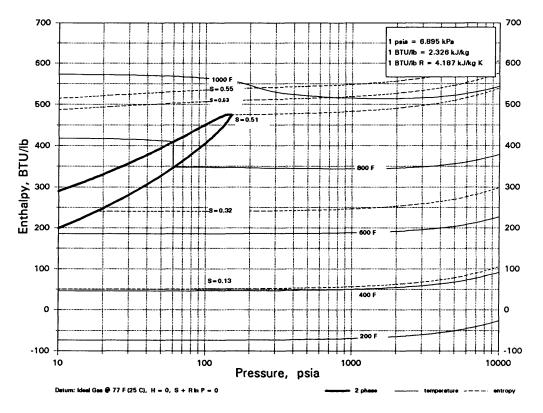


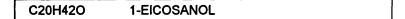


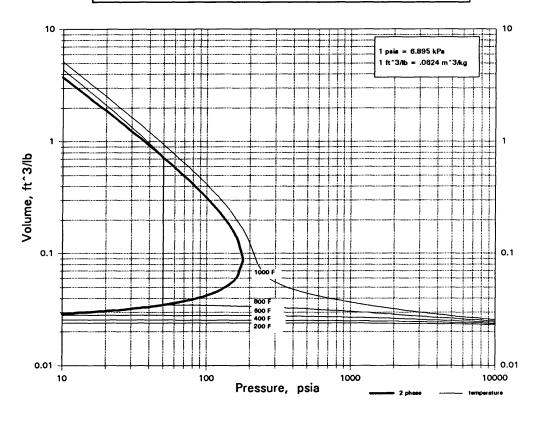


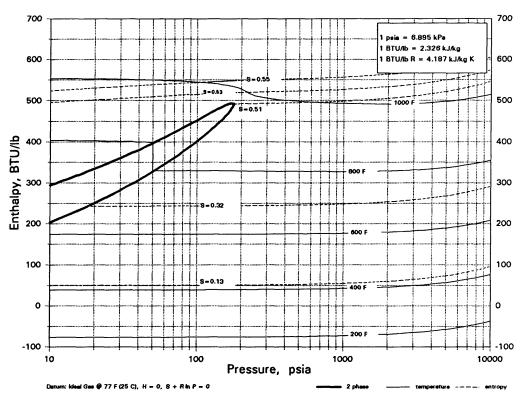




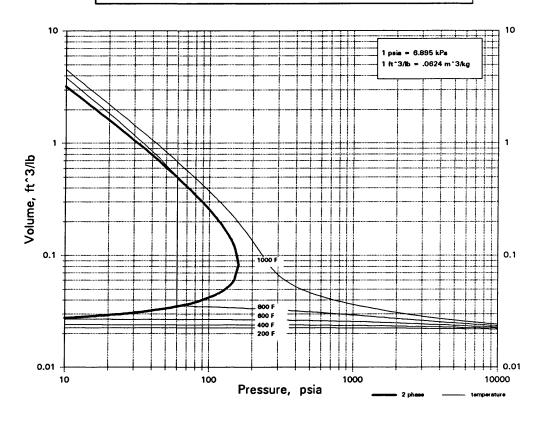


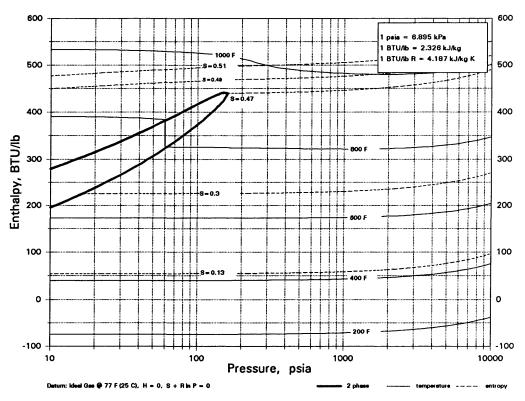




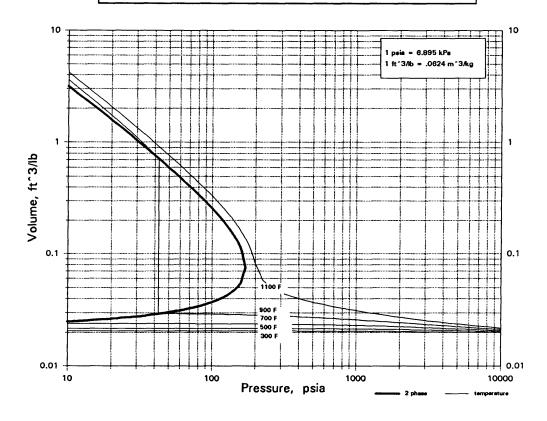


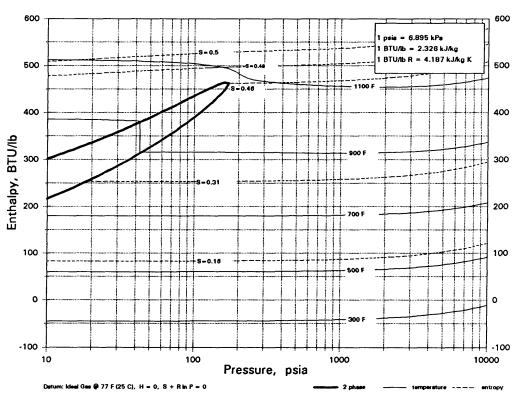




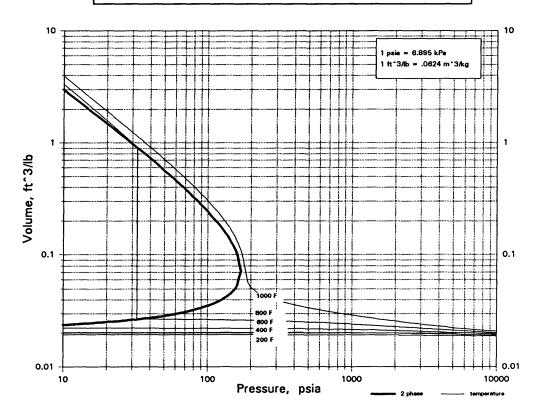


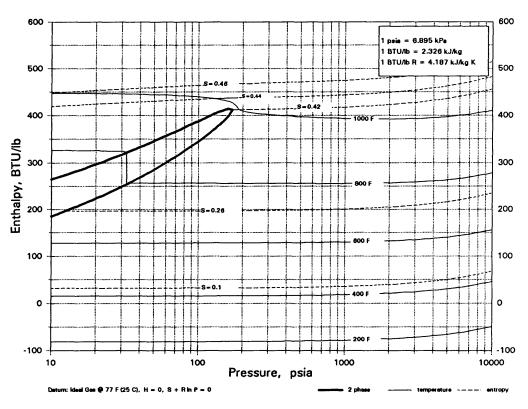
C24H38O4 DIISOOCTYL PHTHALATE



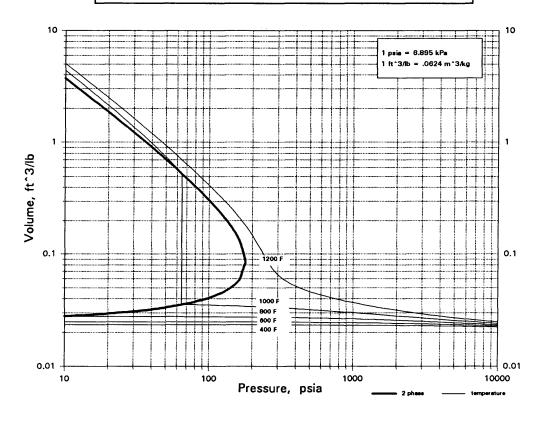


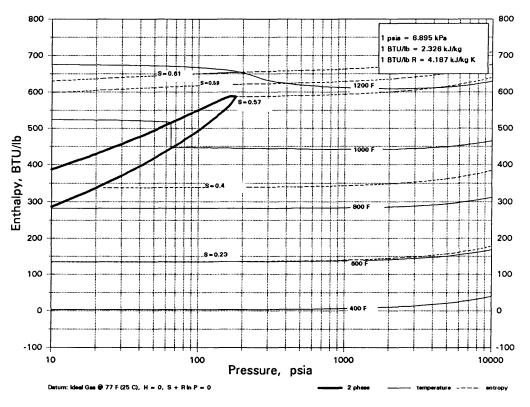




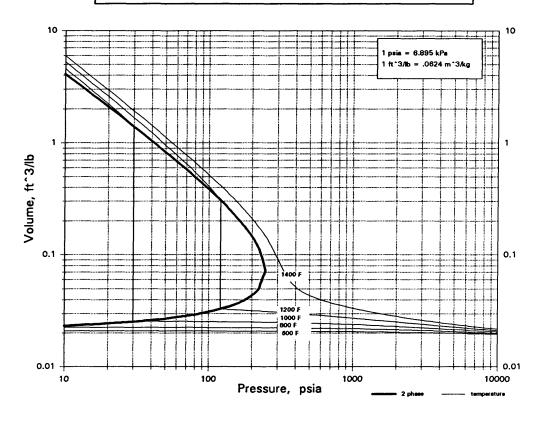


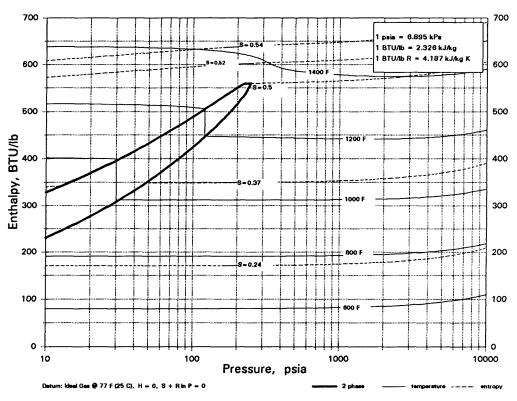




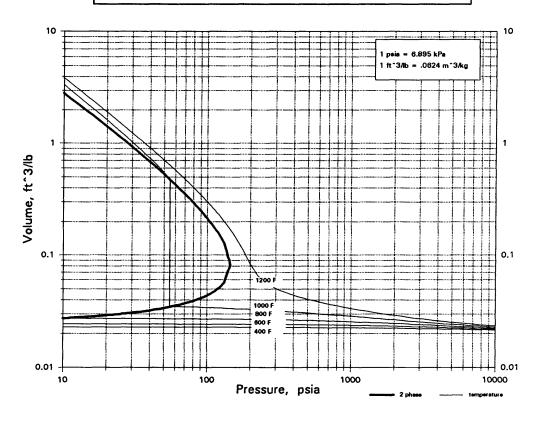


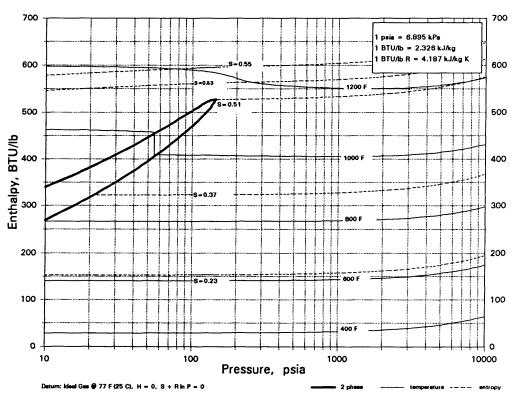












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Appendix A

Equations for Thermodynamic Properties

Enthalpy

$$H = H_{ref} + \int_{T_{ref}}^{T} C_p \ dT - \Delta H^{resid}$$
 (1)

Entropy

$$S = S_{ref} + \int_{T_{ref}}^{T} \frac{C_P}{T} dT - R \ln(\frac{P}{P_{ref}}) - \Delta S^{resid}$$
 (2)

Internal Energy

$$U = H - P V \tag{3}$$

Helmholtz Energy

$$A = U - T S \tag{4}$$

Gibbs Energy

$$G = H - T S \tag{5}$$

Parameters

$$C_P$$
 = heat capacity of ideal gas (6)

$$H_{ref}$$
, S_{ref} = reference state for ideal gas (7)

$$T_{ref}$$
, P_{ref} = reference temperature, reference pressure (8)

$$\Delta H^{resid}$$
, $\Delta S^{resid} = residual \ enthalpy$, residual entropy (9)

Appendix B

Peng-Robinson Equation of State for Thermodynamic Properties

Equation of State

$$P = \frac{RT}{V - b} - \frac{a}{V(V + b) + b(V - b)}$$
 (1)

Volume

$$V^{3} + (b - \frac{RT}{P})V^{2} + (\frac{a}{P} - 3b^{2} - \frac{RT}{P}2b)V + (b^{3} + \frac{RT}{P}b^{2} - \frac{ab}{P}) = 0$$
 (2)

Compressibility Factor

$$Z^3 - (1 - B)Z^2 + (A - 3B^2 - 2B)Z - (AB - B^2 - B^3) = 0$$
 (3)

Fugacity Coefficient

$$\ln \phi = Z - 1 - \ln (Z - B) - \frac{A}{2\sqrt{2}B} \ln \left(\frac{Z + 2.414B}{Z - 0.414B} \right)$$
 (4)

Residual Enthalpy

$$\frac{\Delta H^{resid}}{RT} = 1 - Z + \frac{A}{2\sqrt{2}B} (1 + \frac{D}{a}) \ln \left(\frac{Z + 2.414B}{Z - 0.414B} \right)$$
 (5)

Residual Entropy

$$\frac{\Delta S^{resid}}{R} = -\ln(Z - B) + \frac{AD}{2\sqrt{2}Ba} \ln\left(\frac{Z + 2.414B}{Z - 0.414B}\right)$$
 (6)

<u>Parameters</u>

$$a = a_c \alpha \tag{7}$$

$$a_c = 0.45724R^2T_c^2/P_c (8)$$

$$b = 0.07780RT_c/P_c (9)$$

$$\alpha = [1 + m(1 - T_r^{1/2})]^2$$
 (10)

$$m = 0.37464 + 1.54226\Omega - 0.26992\Omega^2$$
 (original PR) (11)

$$m = see Stryjek$$
, Vera (modified PR) (12)

$$A = aP/R^2T^2 = 0.45724\alpha P_r/T_r^2 = 0.45724\frac{(P/P_c)}{(T/T_c)^2}\alpha$$
 (13)

$$B = bP/RT = 0.07780P_r/T_r = 0.07780\frac{(P/P_c)}{(T/T_c)}$$
 (14)

$$D = -T \frac{da}{dT} = ma\sqrt{T_x/\alpha}$$
 (15)

Appendix C

Examples for Thermodynamic Diagrams

Example 1 - Vessel Pressure

A vessel containing gaseous 1-octene (C8H16) at 230 psia and 500 F is exposed to a fire in the process area. The temperature in the vessel is 900 F when the fire is extinguished. Estimate the final pressure in the vessel.

Since the vessel size does not change appreciably, this situation maybe approximated by a constant volume process. Using the thermodynamic diagram, the initial volume is about 0.24 ft^3/lb. At this same volume and final temperature, the pressure is:

 $P_{\text{finel}} = 460 \text{ psia}$

Example 2 - Reactor Size

A batch reactor is to contain 2,000 lb of 1-octene (C8H16) at 200 psia and 500 F. Estimate the reactor size.

Using the thermodynamic diagram, the volume is about 0.32 ft³/lb at these conditions. Substitution of this into the equation below for the reactor size provides:

Reactor Size = $(2,000 \text{ lb}) (0.32 \text{ ft}^3/\text{lb}) = 640 \text{ ft}^3$

Example 3 - Process Vessel Size

A process vessel is to contain 500 lb of 1-octene (C8H16) at 100 psia and 500 F. Estimate the process vessel size.

Using the thermodynamic diagram, the volume is about 0.8 ft³/lb at these conditions. Substitution of this into the equation below for the process vessel size provides:

Vessel Size = $(500 \text{ lb}) (0.8 \text{ ft}^3/\text{lb}) = 400 \text{ ft}^3$

Example 4 - Heat Exchanger Duty

1-Octene (C8H16, 30,000 lb/hr) at 100 psia and 500 F is heated to 900 F and then fed to a plug-flow reactor. Estimate the heat exchanger duty necessary to accomplish the heating.

Substitution of mass flow and enthalpies from the thermodynamic diagram into the equation below provides:

Heat Exchanger Duty = mass flow $(H_2 - H_1) = (30,000 \text{ lb/hr})(475 - 200) \text{ BTU/lb}$

= 8.25 million BTU/hr

Example 5 - Compression

1-Octene (C8H16, 20,000 lb/hr) at 10 psia and 500 F is compressed to 4,000 psia. Estimate the change in enthalpy for the compression assuming adibatic and reversible conditions (constant entropy).

Substitution of mass flow and enthalpies from the thermodynamic diagram into the equation below provides:

Enthalpy Change = mass flow $(H_2 - H_1) = (20,000 \text{ lb/hr})(310 - 210) \text{ BTU/lb}$

= 2.0 million BTU/hr

This change in enthalpy represents energy that is required to accomplish the compression under adibatic and reversible conditions. Under operating conditions, the actual energy that is required for the compression will be somewhat more depending on the efficiency.

Example 6 - Expansion

1-Octene (C8H16, 30,000 lb/hr) at 8,000 psia and 900 F is expanded to 10 psia. Estimate the change in enthalpy for the expansion assuming adibatic and reversible conditions (constant entropy).

Substitution of mass flow and enthalpies from the thermodynamic diagram into the equation below provides:

Enthalpy Change = mass flow $(H_2 - H_1) = (30,000 \text{ lb/hr})(280 - 420) \text{ BTU/lb}$

= - 4.2 million BTU/hr

This change in enthalpy represents energy that is available from the expansion under adibatic and reversible conditions. Under operating conditions, the actual energy that is available for the expansion will be somewhat less depending on the efficiency.

Appendix D

CRITICAL CONSTANTS AND ACENTRIC FACTOR FOR C_8 TO C_{28} COMPOUNDS

Carl L. Yaws Lamar University, Beaumont, Texas

NO	CODMILL A	NAME	MW m (m = 1	T _F	T _B	T _c	P _C	V _C cm³/mol	$ ho_{ m C}$ g/cm 3	-	
NO	FORMULA	ISOPHTHALOYL CHLORIDE PHTHALIC ANHYDRIDE ISOPHTHALIC ACID PHTHALIC ACID PHTHALIC ACID TEREPHTHALIC ACID BENZOTHIOPHENE INDOLE STYRENE ACETOPHENONE PTOLUALDEHYDE METHYL BENZOATE O-TOLUIC ACID P-TOLUIC ACID METHYL SALICYLATE VANILLIN ACETANILIDE ETHYLBENZENE M-XYLENE O-XYLENE P-XYLENE M-ETHYLPHENOL P-ETHYLPHENOL P-ETHYLPHENOL P-ETHYLPHENOL 2-3-XYLENOL 2-5-XYLENOL 2-5-XYLENOL 3-5-XYLENOL 3-5-XYLENOL 3-5-XYLENOL 1-4-CYCLOHEXANE INDOMETHYLANILINE P-PHENETIDINE 1-5-CYCLOOCTADIENE VINYLCYCLOHEXENE 1-4-CYCLOHEXENE 1-4-CYCLOHEXENE 1-1-DIMETHYLCYCLOHEXANE Cis-1-2-DIMETHYLCYCLOHEXANE Cis-1-3-DIMETHYLCYCLOHEXANE trans-1-3-DIMETHYLCYCLOHEXANE trans-1-4-DIMETHYLCYCLOHEXANE cis-1-3-DIMETHYLCYCLOHEXANE trans-1-4-DIMETHYLCYCLOHEXANE cis-1-4-DIMETHYLCYCLOHEXANE trans-1-4-DIMETHYLCYCLOHEXANE	g/mol	K	K	K	bar	cm /mol	g/cm	Z _c	ω
1	C8H4Cl2O2	ISOPHTHALOYL CHLORIDE	203.024	317.00	549.00	768.00		471.0	0.4310	0.246	0.646
	C8H4O3	PHTHALIC ANHYDRIDE	148.118	404.26	557.65	791.00	47.20	421.0	0.3518	0.302	0.708
	C8H6O4	ISOPHTHALIC ACID	166.133	619.15		1007.00	39.50	424.0	0.3918	0.200	1.062
	C8H6O4	PHTHALIC ACID	166.133	464.15	598.00	800.00	39.50	424.0	0.3918	0.252	1.059
	C8H6O4	TEREPHTHALIC ACID	166.133	700.15		1113.00	39.50	424.0	0.3918	0.181	1.059
	C8H6S	BENZOTHIOPHENE	134.202	304.50	493.05	754.00	41.40	349.0	0.3845	0.230	0.296
	C8H7N	INDOLE	117.150	273.68	526.15	790.00	43.00	431.0	0.2718	0.282	0.374
	C8H8 C8H8O	ACETODHENONE	104.152	242.54	418.31 475.15	648.00 701.00	40.00 38.40	352.0 376.0	0.2959	0.261 0.248	0.236 0.429
	C8H80	D-TOLUAL DENVOE	120.131	293.00	477.15	698.00	36.70	416.0	0.2888	0.263	0.442
	C8H8O2	METHYL RENZOATE	136 150	260.75	472.65	693.00	35.90	436.0	0.3123	0.272	0.415
	C8H8O2	o-TOLUIC ACID	136.150	376.85	532.00	751.00	38.60	397.0	0.3429	0.245	0.657
	C8H8O2	p-TOLUIC ACID	136,150	452.75	548.15	773.00	38.60	397.0	0.3429	0.238	0.661
	C8H8O3	METHYL SALICYLATE	152.150	265.15	493.65	701.00	40.90	410.0	0.3711	0.288	0.632
15	C8H8O3	VANILLIN	152.150	355.00	558.00	777.00	40.10	415.0	0.3666	0.258	0.757
16	C8H9NO	ACETANILIDE	135.166	386.65	576.95	825.00	37.30	430.0	0.3143	0.234	0.564
17	C8H10	ETHYLBENZENE	106.167	178.20	409.35	617.17	36.09	373.8	0.2840	0.263	0.304
	C8H10	m-XYLENE	106.167	225.30	412.27	617.05	35.41	375.8	0.2825	0.259	0.326
	C8H10	o-XYLENE	106.167	247.98	417.58	630.37	37.34	369.2	0.2876	0.263	0.313
	C8H10	p-XYLENE	106.167	286.41	411.51	616.26	35.11	379.1	0.2801	0.260	0.326
	C8H100	m-ETHYLPHENOL	122.167	740.07	477.66	716.45	42.90	387.0	0.3157	0.279	0.524
	C8H100	DIENETOLE	122.167	318.23	491.14	716.45	42.90	387.0	0.3157	0.279 0.248	0.524 0.415
	C8H100 C8H100	2-DUENVI ETUANOI	122.107	243.63	443.15 492.05	647.15 684.00	34.25 39.20	390.0 387.0	0.3132 0.3157	0.248	0.743
	C8H100	2-7-121 ET TANOL	122.107	345.71	490.07	722.95	49.00	360.0	0.3394	0.293	0.511
	C8H100	2-4-XYI FNOI	122 167	297.68	484.13	707.65	44.00	390.0	0.3132	0.292	0.513
	C8H100	2-5-XYLENOL	122.167	347.99	484.33	707.05	49.00	350.0	0.3490	0.292	0.563
	C8H100	2-6-XYLENOL	122.167	318.76		701.05	43.00	390.0	0.3132	0.288	0.455
	C8H100	3-4-XYLENOL	122.167	338.25	500.15	729.95	50.00	350.0	0.3490	0.288	0.573
30	C8H100	3-5-XYLENOL	122.167	336.59	494.89	715.65	36.48	480.0	0.2545	0.294	0.491
	C8H11N	N-N-DIMETHYLANILINE	121.182	275.60	466.69	687.15	36.27	465.0	0.2606	0.295	0.403
	C8H11N	o-ETHYLANILINE	121.182	226.55	482.65	704.00	37.40	399.0	0.3037	0.255	0.463
	C8H11N	2-4-6-TRIMETHYLPYRIDINE	121.182	229.00	444.00	653.00	33.30	417.0	0.2906	0.256	0.376
	C8H11NO	p-PHENETIDINE	137.181	277.00	528.00	754.00	35.70	446.0	0.3076	0.254	0.553
	C8H12	1-5-CYCLOOCTADIENE	108.183	203.98	423.27	645.00	39.00	366.0	0.2956	0.266	0.286
	C8H12	VINYLCYCLOHEXENE	108.183	164.00	401.00	599.00	34.30	379.0	0.2854	0.261	0.329
	C8H12O4 C8H12O4	DISTUM MALEATE	172.181	585.65 264.35	669.00	889.00	34.20	464.0 508.0	0.3711	0.215 0.235	1.036 0.666
	C8H14O2	DIEINIL MALEATE	1/2.101		498.15 434.00	680.00 616.00	26.10 26.30	481.0	0.2956	0.247	0.466
	C8H14O3	RUTYRIC ANHYDRIDE	158 197	199.85	468.15	639.00	26.90	501.0	0.3158	0.254	0.659
	C8H14O4	DIETHYL SUCCINATE	174.197	252.35	489.65	660.00	25.30	522.0	0.3337	0.241	0.737
	C8H16	1-1-DIMETHYLCYCLOHEXANE	112.215	239.66	392.70	591.15	29.38	450.0	0.2494	0.269	0.233
	C8H16	cis-1-2-DIMETHYLCYCLOHEXANE	112.215	223.16	402.94	606.15	29.38	460.0	0.2439	0.268	0.232
	C8H16	trans-1-2-DIMETHYLCYCLOHEXANE	112.215	184.99	396.58	596.15	29.38	460.0	0.2439	0.273	0.238
	C8H16	cis-1-3-DIMETHYLCYCLOHEXANE	112.215	197.58	393.24	591.15	29.38	450.0	0.2494	0.269	0.237
	C8H16	trans-1-3-DIMETHYLCYCLOHEXANE	112.215	183.07	397.61	598.00	39.38	460.0	0.2439	0.272	0.234
	C8H16	cis-1-4-DIMETHYLCYCLOHEXANE	112.215	185.72	397.47	598.15	29.38	460.0	0.2439	0.272	0.231
	C8H16	Trans-1-4-DIMETHYLCYCLOHEXANE	112.215	236.21	392.51	590.15	29.38	450.0		0.269	0.237
	C8H16	ETHYLCYCLOHEXANE	112.215	161.84					0.2494 0.2812		
	C8H16 C8H16	2-ETHYL-1-HEXENE 1-METHYL-1-ETHYLCYCLOPENTANE	112.215 112.215	120 75		574.00 582.00			0.2622	0.267	0.330
	C8H16	1-OCTENE		171.45		566.60		472.0	0.2377	0.256	0.375
	C8H16	trans-2-OCTENE	112.215	185.45		577.00				0.260	0.338
	C8H16	trans-3-OCTENE		163.15		574.00			0.2338	0.260	0.344
	C8H16	trans-4-OCTENE	112.215	179.37		573.00			0.2338	0.260	0.339
	C8H16	n-PROPYLCYCLOPENTANE	112.215		404.11	603.00			0.2640	0.254	0.272
	C8H16	2-4-4-TRIMETHYL-1-PENTENE	112.215		374.59	553.00			0.2413	0.266	0.270
	C8H16	2-4-4-TRIMETHYL-2-PENTENE	112.215		378.06	558.00				0.266	0.265
	C8H16O	2-ETHYLHEXANAL	128.214		433.80	607.00			0.2705	0.242	0.520
60	C8H16O	1-OCTANAL	128.214	246.00	447.15	621.00	25.50	474.0	0.2705		0.547
61	C8H160	2-OCTANONE	128.214	252.85	445.75	624.00	26.40	469.0	0.2734		
62	USH1602	N-BUTYL N-BUTYRATE	144.214	181.15	438.15	616.00	25.40	494.0	0.2919		
63	C8H16UZ	N-MEXIL ACEIAIE	144.214	192.25	444.65	618.00	25.40	494.U	0.2919		
04	CON 10UZ	2-OCTANAL 2-OCTANONE n-BUTYL n-BUTYRATE n-HEXYL ACETATE ISOBUTYL ISOBUTYRATE	144.214	174.40	420.00	002.00	20.10	474.U	U.ZYIY	0.230	0.393
										_	

			MW	T _c	T _n	T _C	P _C	V _C	ρ _c		
NO	FORMULA	NAME n-OCTANOIC ACID DIETHYLENE GLYCOL ETHYL ETHER ACETAT	g/mol	K	ĸ	ĸ	bar	V _C cm³/mol	g/cm ³	$\mathbf{z}_{\mathbf{c}}$	ω
65	C8H16O2	n-OCTANOIC ACID	144.214	289.65	513.05	692.00	26.90	494.0	0.2919	0.231	0.779
	C8H16O4	DIETHYLENE GLYCOL ETHYL ETHER ACETAT 2-2-DIMETHYLHEXANE 2-3-DIMETHYLHEXANE 2-4-DIMETHYLHEXANE 2-5-DIMETHYLHEXANE 3-3-DIMETHYLHEXANE 3-4-DIMETHYLHEXANE 3-4-DIMETHYLHEXANE 3-ETHYLHEXANE 3-ETHYLHEXANE 3-METHYLHEPTANE 3-METHYLHEPTANE 3-METHYLHEPTANE 2-METHYLHEPTANE 2-METHYLHEPTANE 4-METHYLHEPTANE 2-3-TRIMETHYLPENTANE 2-2-4-TRIMETHYLPENTANE 2-3-3-TRIMETHYLPENTANE 2-3-4-TRIMETHYLPENTANE DI-n-BUTYL ETHER DI-tert-BUTYL ETHER DI-tert-BUTYL ETHER 2-ETHYL-1-HEXANOL 1-OCTANOL 2-OCTANOL DI-T-BUTYL SULFONE DIETHYLENE GLYCOL DIETHYL ETHER DIETHYLENE GLYCOL DIETHYL ETHER DIETHYLENE GLYCOL DIMETHYL ETHER	176.213	248.15	490.55	660.00	24.20	565.0		0.249	0.715
	C8H18	2-2-DIMETHYLHEXANE	114.231	151.97	379.99	549.80	25.30	478.0	0.2390		0.338
	C8H18	2-3-DIMETHYLHEXANE	114.231		388.76	563.40	26.30	468.2	0.2440	0.263	0.347
	C8H18 C8H18	2-4-DIMETHYLHEXANE	114.231	182 00	382.58	553.50 550.00	25.60 24.90	472.0 482.0	0.2420	0.263 0.262	0.344 0.358
	C8H18	3-3-DIMETHYLHEXANE	114.231	147.05	385.12	562.00			0.2580	0.251	0.320
	C8H18	3-4-DIMETHYLHEXANE	114.231		390.88	568.80	26.90		0.2450	0.265	0.338
73	C8H18	3-ETHYLHEXANE	114.231		391.69	565.40	26.10	455.1	0.2510	0.253	0.363
	C8H18	3-METHYL-3-ETHYLPENTANE	114.231	182.28	391.42	576.50		455.1	0.2510	0.267	0.305
	C8H18	2-METHYLHEPTANE	114.231	164.16	390.80	559.64	24.85	488.0	0.2341	0.261	0.377
	C8H18 C8H18	A-METHYLHEPIANE	114.231	152.00	392.08	563.67 561.74		464.0 476.0	0.2462	0.252 0.259	0.372 0.371
	C8H18	n-OCTANE	114.231	216.38	398.83	568.83	24.86	492.1	0.2322	0.259	0.376
	C8H18	2-2-3-TRIMETHYLPENTANE	114.231	160.89	383.00	563.50	27.30		0.2620		0.297
	C8H18	2-2-4-TRIMETHYLPENTANE	114.231	165.78	372.39	543.96	25.68	468.0	0.2441	0.266	0.303
	C8H18	2-3-3-TRIMETHYLPENTANE	114.231	172.22	387.92	573.50	28.20	455.1	0.2510	0.269	0.290
	C8H18 C8H18O	Z-3-4-IKIMEINTLPENIANE	114.231	103.95	380.02 413 44	566.30 581.00	27.30 24.60	460.6 487.0	0.2480	0.267 0.248	0.316 0.467
	C8H18O	DI-sec-BUTYL ETHER	130.230	173.15	394.20	559.00	25.30		0.2636		0.432
	C8H18O	DI-tert-BUTYL ETHER	130.230	195.00	380.40	550.00	25.30	487.0	0.2674	0.269	0.346
86	C8H18O	2-ETHYL-1-HEXANOL	130.230	203.15	457.75	640.25	27.30	485.0	0.2685	0.249	0.549
	C8H18O	1-OCTANOL	130.230	257.65	468.35	652.50	28.60	490.0	0.2658	0.258	0.594
	C8H18O	2-OCTANOL	130.230	241.55	452.95	637.15	27.30		0.2777		0.506
	C8H18O2 C8H18O2S	DI-T-BUITL PEROXIDE	178 206	233.13 318.00	564 00	547.00 767.00	24.80 25.40	508.0 569.0	0.2879 0.3133	0.277 0.227	0.403 0.688
	C8H18O3	DIETHYLENE GLYCOL DIETHYL ETHER	162.229	228.85	462.15	624.00					
92	C8H18O3	DIETHYLENE GLYCOL MONOBUTYL EHTER	162.229	205.15	504.15	654.00	25.60	526.0	0.3084	0.248	0.937
93	C8H18O4	TRIETHYLENE GLYCOL DIMETHYL ETHER	178.229	229.35	489.15	651.00	23.10	548.0	0.3252	0.234	0.792
94	C8H18O5	TETRAETHYLENE GLYCOL	194.228	268.15	581.00	722.00	25.90	564.0	0.3444	0.243	1.578
95	C8H18S	n-OCIYL MERCAPIAN	146.297	100 00	472.19	664.00	25.20	518.0	0.2824	0.236	0.4/3
97	C8H19N	DI-n-RUTYI AMINE	129.246	211.15	432.00	607.50	31.10	524.0	0.2467	0.203	0.560
98	C8H19N	DIISOBUTYLAMINE	129.246	203.15	412.25	580.00	25.70	524.0	0.2467	0.279	0.485
99	C8H19N	n-OCTYLAMINE	129.246	272.75	452.75	627.00	25.80	524.0	0.2467	0.259	0.568
100	C8H23N5	TETRAETHYLENEPENTAMINE	189.304	243.00	606.15	774.00	25.30	636.0	0.2976	0.250	1.237
101	C8H24O4S14	OCTAMETHYLCYCLOTETRASILOXANE	296.618	290.80	448.15	586.50	13.32	970.0	0.3058	0.265	0.589
102	C9H6N2O2	TOLUFNE DIISOCYANATE	174.159	287.04	523.15	737.00	30.40	525.0	0.4139	0.255	0.553
104	C9H7N	ISOQUINOLINE	129.161	299.45	516.40	803.15	49.80	403.0	0.3205	0.301	0.289
105	C9H7N	QUINOLINE	129.161	258.25	510.75	782.15	46.60	469.0	0.2754	0.336	0.329
106	C9H7NO	8-HYDROXYQUINOLINE	145.161	346.00	540.00	788.00	43.60	414.0	0.3506	0.276	0.522
107	C9H8	INDENE	116.163	271.70	455.77	687.00	38.20	368.0	0.3157	0.246	0.335
100	C9H60	Z-MEINILBENZUFUKAN INDANE	132.102	221 74	470.00	684 90	30.40	405.0 381 N	0.3203	0.234	0.3/4
110	C9H10	alpha-METHYLSTYRENE	118.178	249.95	438.65	654.00	33.60	423.0	0.2794	0.261	0.327
111	C9H10	m-METHYLSTYRENE	118.178	186.81	444.75	657.00	32.90	407.0	0.2904	0.245	0.349
112	C9H10	o-METHYLSTYRENE	118.178	204.58	442.96	659.00	34.70	407.0	0.2904	0.258	0.341
113	C9H10	P-METHYLSTYRENE	118.178	239.02	445.93	665.00	33.60	431.0	0.2742	0.262	0.318
114	C9H1002	BENZIL ACETATE	150.177	221.00	480.00 486.55	699.00	31.80	449.U 480.0	0.3345	0.240	0.470
116	C9H10OZ	FTHYL VANILLIN	166, 177	350.65	567.00	748.00	32.70	467.0	0.3558	0.266	1.073
117	C9H11NO	p-DIMETHYLAMINOBENZALDEHYDE	149.192	348.00	588.00	832.00	30.70	471.0	0.3168	0.209	0.527
118	C9H12	CUMENE	120.194	177.14	425.56	631.15	32.09	427.7	0.2810	0.262	0.338
119	C9H12	m-ETHYLTOLUENE	120.194	177.61	434.48	637.15	28.37	490.0	0.2453	0.262	0.322
120	C9H12	o-ETHYLTOLUENE	120.194	192.35	438.33	651.15	30.40	460.0	0.2613	0.258	0.293
121	C9H12	P-EIHYLIULUENE	120.194	270.85	435.16	640.15	29.38	470.0 433.0	0.2557	0.259	0.324
123	C9H12	n-PROPYI RENZENE	120.194	173.67	432.39	638.38	32.00	440.0	0.2732	0.265	0.346
124	C9H12	1-2-3-TRIMETHYLBENZENE	120.194	247.79	449.27	664.53	34.54	414.0	0.2903	0.259	0.366
125	C9H12	1-2-4-TRIMETHYLBENZENE	120.194	229.38	442.53	649.13	32.32	430.0	0.2795	0.258	0.379
126	C9H12O	BENZYL ETHYL ETHER	136.194	275.65	458.15	662.00	31.10	442.0	0.3081	0.250	0.433
127	C9H12O	DIETHYLENE GLYCOL DIETHYL ETHER DIETHYLENE GLYCOL MONOBUTYL EHTER TRIETHYLENE GLYCOL DIMETHYL ETHER TETRAETHYLENE GLYCOL OCTYL MERCAPTAN tert-OCTYL MERCAPTAN DI-n-BUTYLAMINE DIISOBUTYLAMINEOCTYLAMINE TETRAETHYLENEPENTAMINE OCTAMETHYLCYCLOTETRASILOXANE TRIMELLITIC ANHYDRIDE TOLUENE DIISOCYANATE ISOQUINOLINE QUINOLINE QUINOLINE 8-HYDROXYQUINOLINE INDENE 2-METHYLBENZOFURAN INDANE alpha-METHYLSTYRENEMETHYLSTYRENE D-METHYLSTYRENE BENZYL ACETATE ETHYL BENZOATE ETHYL VANILLIN P-DIMETHYLAMINOBENZALDEHYDE CUMENEETHYLTOLUENEETHYLTOLUENEETHYLTOLUENEETHYLTOLUENE M-SITYLENE 1-2-3-TRIMETHYLBENZENE 1-2-4-TRIMETHYLBENZENE 1-2-4-TRIMETHYLBENZENE BENZYL ETHYL ETHER 2-PHENYL-2-PROPANOL CUMENE HYDROPEROXIDE ISOPHORONE GLYCERYL TRIACETATE AZELAIC ACID ISOPROPYLCYCLOHEXANE 1-NONENEPROPYLCYCLOHEXANE 1-NONENALBUTYL VALERATENONANOIC ACIDOCTYL FORMATE	156.194	309.15	4/5.15	660.00	54.90	440.0	0.3095	0.280	0.698
128	C9H12U2	ISODHODONE	138 210	204.20 265 05	442.7U 488 35	715 00	33.40 33 30	419.U 454 O	0.3032	0.2/8 0.255	0.332
130	C9H14O6	GLYCERYL TRIACETATE	218, 207	277.25	532.15	704 - 00	23.10	625.0	0.3491	0.247	0.839
131	С9н1604	AZELAIC ACID	188.224	379.65	633.36	811.00	25.60	610.0	0.3086	0.232	1.172
132	С9Н18	ISOPROPYLCYCLOHEXANE	126.242	183.76	427.91	627.00	28.50	464.0	0.2721	0.254	0.330
133	С9Н18	1-NONENE	126.242	191.78	420.02	593.25	23.30	528.0	0.2391	0.249	0.417
134	C9H18	n-PROPYLCYCLOHEXANE	126.242	178.28	429.90	639.15	28.07	477.0	0.2647	0.252	0.260
135	C9H18O	DIISOBUTYL KETONE	142.241	227.17	447.41	615.00	24.80	522.0	0.2725	0.253	0.512
136	CON1803	N-RITYI VALERATE	158 2/1	222.12 180 35	400.10 450 45	620 NN	23.30	547.U 547.N	0.2099	0.231 0.231	0.592
138	C9H18O2	n-NONANOIC ACID	158.241	285.55	528.75	703.00	24.50	547.0	0.2893	0.229	0.831
139	C9H18O2	n-OCTYL FORMATE	158.241	234.05	471.95	645.00	23.30	547.0	0.2893	0.238	0.587

NO	FORMULA	NAME 3-3-DIETHYLPENTANE 2-4-DIMETHYL-3-ETHYLPENTANE 2-4-DIMETHYL-3-ETHYLPENTANE 2-2-DIMETHYLHEPTANE 3-ETHYLHEPTANE 3-ETHYLHEPTANE 3-ETHYLOCTANE 4-METHYLOCTANE 4-METHYLOCTANE 1-NONANE 2-2-3-3-TETRAMETHYLPENTANE 2-2-3-4-TETRAMETHYLPENTANE 2-2-5-TRIMETHYLHEXANE 2-6-DIMETHYL-4-HEPTANOL 1-NONANOL 2-NONANOL 1-NONYL MERCAPTAN 1-NONYLAMINE TRIPROPYLAMINE PYROMELLITIC ACID 1-BROMONAPHTHALENE NAPHTHALENE QUINALDINE M-DIVINYLBENZENE 1-CHLORONAPHTHALENE 1-CHLORONAPHTHALATE DIMETHYL TEREPHTHALATE DIMETHYL PHTHALATE DIMETHYL TEREPHTHALATE DIMETHYL TEREPHTHALATE DIMETHYL TEREPHTHALATE DICYCLOPENTADIENE 1-2-3-4-TETRAHYDRONAPHTHALENE ANETHOLE DIALLYL MALEATE 1-BUTYLBENZENE 5-ETHYL-BENZENE M-CYMENE M-CYMENE M-CYMENE M-CYMENE M-DIETHYLBENZENE M-CYMENE M-DIETHYLBENZENE D-DIETHYLBENZENE 2-ETHYL-P-XYLENE 3-ETHYL-D-XYLENE 4-ETHYL-M-XYLENE 4-ETHYL-M-XYLENE 5-ETHYL-M-XYLENE	MW g/mol	Т _ғ К	T _B K	T _C K	P _c bar	V _C cm³/mol	$ ho_{ m C}$ g/cm 3	Z _c	ω
140	С9Н20	3-3-DIETHYLPENTANE	128 258	240 12	410 34	610 05	26.75	473 0	0.2712	0.249	0.338
	C9H2O	2-2-DIMETHYL-3-ETHYLPENTANE	128.258	173.68	406.99	590.00	25.70	511.0	0.2510	0.268	0.335
	C9H20	2-4-DIMETHYL-3-ETHYLPENTANE	128.258	150.79	409.87	591.00	25.30	512.0	0.2505	0.264	0.353
	C9H2O	2-2-DIMETHYLHEPTANE	128.258	160.15	405.84	576.80	23.50	519.0	0.2471	0.254	0.390
	C9H20	2-6-DIMETHYLHEPTANE	128.258	170.25	408.36	579.00	23.00	520.0	0.2467	0.248	0.393
	C9H2O	3-ETHYLHEPTANE	128.258	158.25	416.35	590.00	23.90	528.0	0.2429	0.257	0.408
146	C9H2O	2-METHYLOCTANE	128.258	192.78	416.43	586.75	22.90	541.0	0.2371	0.254	0.422
	C9H2O	3-METHYLOCTANE	128.258	165.55	417.38	590.15	23.41	529.0	0.2425	0.252	0.413
	C9H2O C9H2O	4-METHTLUCIANE	120.200	210 47	412.29	507.00 EOE 4E	27.04	523.0 547.7	0.2452	0.255	0.413 0.438
	C9H2O	2-2-3-TETDAMETHYLDENTANE	120.230	267.03	423.71	610.85	27.36	478.0	0.2683	0.257	0.280
	C9H2O	2-2-3-4-TETRAMETHYL PENTANE	128.258	152.06	406.18	592.15	25.64	490.0	0.2618	0.255	0.311
152	C9H2O	2-2-4-4-TETRAMETHYLPENTANE	128.258	206.95	395.44	571.35	23.61	504.0	0.2545	0.250	0.316
	C9H2O	2-2-5-TRIMETHYLHEXANE	128.258	167.39	397.24	568.05	23.31	519.0	0.2471	0.256	0.357
	C9H2OO	2-6-DIMETHYL-4-HEPTANOL	144.257	208.00	451.00	603.00	25.50	538.0	0.2681	0.274	0.802
155	C9H2OO	1-NONANOL	144.257	268.15	486.25	673.00	26.00	546.4	0.2640	0.254	0.594
	C9H200	2-NONANOL	144.257	238.15	471.65	623.00	24.80	538.0	0.2681	0.258	0.890
	C9H2OS	n-NONYL MERCAPTAN	160.324	253.05	492.95	681.00	23.10	571.0	0.2808	0.233	0.531
	C9H21N	n-NONYLAMINE	143.272	273.15	475.35	648.00	23.60	577.0	0.2483	0.253	0.615
	C9H21N	TRIPROPYLAMINE	143.272	179.65	429.65	577.50	22.30	576.0	0.2487		0.699
	C10H608	1 PROMOLECUITE ACID	254.153	554.00	722.00	893.00	31.40	584.0 453.0	0.4352 0.4571	0.247	1.830 0.369
	C10H7Br C10H7Cl	1-CHI ODOMADUTUAL ENE	142 419	2/9.33	572 /5	795 00	3/.00	434.0	0.4371	0.226	0.383
	C10H8	NADUTHALENE	102.010	353 /3	/O1 1/	7/8 35	40 51	413.0	0.3103	0.269	0.302
	C10H9N	CHINALDINE	143 188	272 15	510 75	773 00	29 60	490.0	0.2922	0.226	0.280
	C10H10	m-DIVINYLBENZENE	130.189	206.25	472.65	692.00	31.20	440.0	0.2959	0.239	0.373
	C10H10	1-METHYLINDENE	130.189		471.65	703.00	34.60	440.0	0.2959	0.260	0.336
167	C10H10	2-METHYLINDENE	130.189	353.15	458.00	684.00	34.60	429.0	0.3035	0.261	0.328
168	C10H1004	DIMETHYL PHTHALATE	194.187	272.15	556.85	766.00	27.80	530.0	0.3664	0.231	0.647
169	C10H1004	DIMETHYL TEREPHTHALATE	194.187	413.80	561.15	772.00	27.80	529.0	0.3671	0.229	0.637
	C10H12	DICYCLOPENTADIENE	132.205	307.00	443.00	660.00	30.60	445.0	0.2971	0.248	0.285
	C10H12	1-2-3-4-TETRAHYDRONAPHTHALENE	132.205	237.40	480.77	720.15	36.20	441.0	0.2998	0.267	0.328
	C10H120	ANETHOLE	148.205	294.50	508.45	723.00	29.00	482.0	0.3075	0.233	0.485
	C10H12O4	DIALLYL MALEATE	196.203	226.15	520.00	693.00	23.30	606.0	0.3238	0.245	0.789
	C10H14 C10H14	N-BUITLBENZENE	134.221	107.30	420.40	660.00	20.07	497.0 497.0	0.2701 0.2701	0.261 0.265	0.392 0.276
	C10H14	tert-Buitti BENZENE	134.221	215 27	440.40	660.00	29.31	497.0	0.2701	0.266	0.266
	C10H14	m-CYMENE	134.221	200 44	442.30	657 00	29.70	485.0	0.2767	0.260	0.341
	C10H14	o-CYMENE	134.221	201.64	451.33	662.00	29.30	489.0	0.2745	0.260	0.337
	C10H14	p-CYMENE	134.221	205.25	450.28	653.15	28.37	492.0	0.2728	0.257	0.372
180	C10H14	m-DIETHYLBENZENE	134.221	189.26	454.29	663.00	28.80	488.0	0.2750	0.255	0.350
181	C10H14	o-DIETHYLBENZENE	134.221	241.93	456.61	668.00	28.80	502.0	0.2674	0.260	0.340
	C10H14	p-DIETHYLBENZENE	134.221	230.32	456.94	657.96	28.03	497.0	0.2701	0.255	0.404
	C10H14	2-ETHYL-m-XYLENE	134.221	256.89	463.19	671.00	30.20	482.0	0.2785	0.261	0.407
	C10H14	2-ETHYL-p-XYLENE	134.221	219.52	459.98	663.00	28.80	482.0	0.2785	0.252	0.411
	C10H14 C10H14	3-EIHYL-O-XYLENE	134.221	223.04	467.11	680.00	28.80	507.0	0.2647	0.258	0.362
	C10H14	4-EINTE-M-XILENE	134.221	204.27	401.09	447 00	20.00	482.0	0.2785 0.2739	0.251	0.414
	C10H14	5-ETHYL-M-YYLENE	134.221	188 82	456 03	655 NO	27.50	482.0	0.2735	0.234	0.417
189	C10H14	I SOBUTYLBENZENE	134.221	221 70	445.94	650 15	30 40	456.0	0.2943	0.256	0.381
	C10H14	1-2-3-5-TETRAMETHYLBENZENE	134.221	249.46	471.15	679.00	29.70	482.0	0.2785		0.424
	C10H14	1-2-4-5-TETRAMETHYLBENZENE	134.221	352.38	469.99	675.15	29.38	482.0	0.2785		0.435
192	C10H14O	p-tert-BUTYLPHENOL	150.221	371.56	512.88	734.00	33.40	493.0	0.3047	0.270	0.510
193	C10H14O2	p-tert-BUTYLCATECHOL	150.221 166.220	325.00	558.00	776.00	37.70	511.0	0.3253	0.299	0.740
	C10H15N	N-N-DIETYHLANILINE	149.236	235.15	489.42	702.00			0.2684	0.272	0.426
	C10H15N	2-6-DIETHYLANILINE	149.236	276.65	508.65	678.00		495.0	0.3015	0.274	0.954
	C10H16	CAMPHENE	136.237	320.15	433.65	638.00		499.0	0.2730		0.296
	C10H16	U-LIMONENE	136.237	199.00	449.65	660.00			0.2600		0.313
	C10H16 C10H16	atpna-Prettanukene	130.237		440.17 //7 15	649.00 648.00			0.2725 0.2797	0.261	0.381 0.374
	C10H16	alpha-DINENE	136.237	200 15	/20 20	632.00			0.2703		0.286
	C10H16	heta-DINENE	136.237	211 61	427.27	643.00		506.0	0.2692	0.261	0.325
	C10H16	alpha-TERPINENE	136.237		450.35	652.00		506.0	0.2692	0.261	0.376
	C10H16	gamma-TERPINENE	136.237		456.15	661.00			0.2698	0.257	0.375
204	C10H16	TERPINOLENE	136.237		458.15	672.00	27.70	509.0	0.2677	0.252	0.301
	C10H160	p-tert-BUTYLPHENOL p-tert-BUTYLCATECHOL N-N-DIETYHLANILINE 2-6-DIETHYLANILINE CAMPHENE D-LIMONENE alpha-PHELLANDRENE beta-PHELLANDRENE alpha-PINENE beta-PINENE alpha-TERPINENE gamma-TERPINENE TERPINOLENE CAMPHOR cis-DECAHYDRONANPHTALENE trans-DECAHYDRONAPHTHALENE SEBACIC ACID n-BUTYLCYCLOHEXANE 1-DECENE 1-DECANAL	152.236	453.25	480.57	709.00	29.90		0.3309		0.319
	C10H18	cis-decahydronanphtalene	138.253	230.20	468.97	702.25		480.0	0.2880		0.294
	C10H18	trans-DECAHYDRONAPHTHALENE	138.253	242.79	460.46	687.05			0.2880		0.254
	C10H1804	SEBACIC ACID	202.251	407.65	642.09	815.00			0.3074		1.205
	C10H20	n-BUTYLCYCLOHEXANE	140.269	198.42	454.13	667.00	25.70		0.2627		
	C10H20	1-DECENE 1-DECANAL	140.269	247 15	443./5	457.00	21.00		0.2398		
	C10H20O C10H20O2	N-DECANOIC ACID	170.200	201.13 30/. 7E	400.17 5/3 15	717.00	22 50		0.2694		0.642 0.877
	C10H2002	1-DECENE 1-DECANAL n-DECANOIC ACID 2-ETHYLHEXYL ACETATE ISOPENTYL ISOVALERATE	172.200	180 15	471 75	630 00	21 70		0.2871		
	C10H20O2	ISOPENTYL ISOVALERATE	172 268	215 00	467 15	637 00	22.00		0.2871		
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NO	FORMULA	NAME	MW g/mol	T _F K	Т _в К	T _C K	P _c bar	V _C cm³/mol	$\rho_{\rm C}$	z_c	ω
		NAME		K					9/		
215	C10H22					618.45		603.1	0.2359	0.249	0.484
	C10H22	n-DECANE 2-2-DIMETHYLOCTANE 2-METHYLNONANE 3-METHYLNONANE 4-METHYLNONANE 5-METHYLNONANE 1-DECANOL DI-n-PENTYL ETHER ISODECANOL TETRAETHYLENE GLYCOL DIMETHYL ETHER	142.285 142.285		430.05	602.00	21.60	574.0	0.2479	0.248	0.429
	C10H22	2-METHYLNONANE	142.285	198.50	440.15	610.00	21.20	583.0	0.2441	0.244	0.472
	C10H22 C10H22	5-METHYLNONANE	142.285	188.35	440.95	613.00 610.00		583.0	0.2441 0.2441	0.247	0.465 0.465
	C10H22	5-METHYLNONANE	142.205	185.45	438.30	610.00		583 N	0.2441	0.248	0.456
	C10H22O	1-DECANOL	158.284	280.05	503.35	690.00	23.70		0.2640		0.613
222	C10H22O	DI-n-PENTYL ETHER	158.284	203.72	459.90	622.00	20.90	593.0	0.2669	0.240	0.601
	C10H22O	ISODECANOL	158.284	213.15	493.00	644.00	40 10		0.2678	0.252	0.913
	C10H22O5 C10H22S	TETRAETHYLENE GLYCOL DIMETHYL ETHER n-DECYL MERCAPTAN n-DECYLAMINE 1-METHYLNAPHTHALENE 2-METHYLNAPHTHALENE n-BUTYL BENZOATE n-PENTYLBENZENE p-tert-AMYLPHENOL 2-ETHYLHEXYL ACRYLATE 1-UNDECENE 1-UNDECANAL n-UNDECANAL DIDENIZOENBAN	17/ 751	245.45	548.95	705.00	19.40	6/4.0	0.3298 0.2794	0.223	0.965 0.588
	C10H23N	n-DECYL MERCAPIAN	157, 299	288.85	493.65	663.00	21.80	624.U 629.0	0.2501	0.249	0.669
227	C11H10	1-METHYLNAPHTHALENE	142.200	242.67	517.83	772.04	36.60	523.0	0.2719		0.348
	C11H10	2-METHYLNAPHTHALENE	142.200	307.73	514.20	761.00	32.50	507.0	0.2805	0.260	0.346
	C11H14O2	n-BUTYL BENZOATE	178.231	251.65	523.15	724.00	25.90	555.0	0.3211		
	C11H16 C11H160	N-PENITLBENZENE	148.248	766 00	4/8.61 575 15	751 00	20.04	550.0	0.2695 0.3008	0.253	0.439
	C11H2002	2-FTHYLHEXYL ACRYLATE	184 279	183.15	489 15	655 00	29.00	630 N	0.2884	0.243	0.569 0.673
	C11H22	1-UNDECENE	154.296	223.99	465.82	638.00	20.30	642.0	0.2403		
	C11H22O	1-UNDECANAL	170.295	273.15	506.15	672.00	20.00	632.0	0.2695	0.226	0.697
	C11H24	n-UNDECANE	156.312	247.57	469.08	638.76	19.66	657.0	0.2379	0.243	0.536
	C11H240	1-UNDECANOL	172.311	289.05	518.15	704.00	20.80	643.0	0.2680	0.229	0.587
	C11H24S C12H8O	DIBENZOFURAN	188.378	270.15	557 86	710.00	72.00	577 N	0.2787 0.3156	0.227	0.636 0.275
239	C12H9N	DIBENZOPYRROLE	168.195 167.210	517.95	627.86	899.00	32.60	482.0	0.3469	0.243	0.494
240	C12H10	ACENAPHTHENE	154.211	366.56	550.54	803.15	31.00	553.0	0.2789	0.257	0.381
241	C12H10	BIPHENYL	154.211	342.37	528.15	789.26	38.47	501.6	0.3075	0.294	0.366
242	C12H100	DIPHENYL ETHER	170.211	300.02	531.46	763.00	31.30	502.8	0.3385	0.248	0.472
243	C12H11N	DIBENZOPYRROLE ACENAPHTHENE BIPHENYL DIPHENYL ETHER p-AMINODIPHENYL DIPHENYLAMINE p-AMINOAZOBENZENE 1-3-DIPHENYLTRIAZENE 2-6-DIMETHYLNAPHTHALENE 2-7-DIMETHYLNAPHTHALENE 1-ETHYLNAPHTHALENE 1-ETHYLNAPHTHALENE 1-ETHYLNAPHTHALENE DIETHYL PHTHALATE CYCLOHEXYLBENZENE m-DIISOPROPYLBENZENE m-DIISOPROPYLBENZENE DIBUTYL MALEATE BICYCLOHEXYLAMINE 1-DODECANAL n-DODECANAL n-DODECANAL n-DODECANE DI-n-HEXYL ETHER 1-DODECANOL DIETHYLENE GLYCOL DI-n-BUTYL ETHER n-DODECYL MERCAPTAN	169.226	326.00	575.00	817.00	32.90	539.0	0.3140	0.261	0.545
244	C12H11N	D-AMINOA7ORENZENE	107.220	401 00	633 00	877 00	20 00	539.U 6/2 N	0.3140	0.252	0.550
246	C12H11N3	1-3-DIPHENYLTRIAZENE	197.240	372.00	610.00	845.00	28.26	642.0	0.3072	0.258	0.623
247	C12H12	2-6-DIMETHYLNAPHTHALENE	156.227	384.55	535.15	777.00	31.70	520.0	0.3004	0.255	0.418
248	C12H12	2-7-DIMETHYLNAPHTHALENE	156.227	370.15	536.15	778.00	31.70	520.0	0.3004	0.255	0.420
249	C12H12	1-ETHYLNAPHTHALENE	156.227	259.34	531.48	776.00	30.00	520.0	0.3004	0.242	0.363
250 251	C12H12N2	P-AMINODIPHENTLAMINE	184.241	404 15	573 00	702 00	31.90	556 N	0.3091	0.264	0.694
252	C12H14	1-2-3-TRIMETHYLINDENE	158.243	344.65	509.00	726.00	27.70	529.0	0.2991	0.243	0.441
253	C12H14O4	DIETHYL PHTHALATE	222.241	269.15	567.15	757.00	23.30	635.0	0.3500	0.235	0.763
254	C12H16	CYCLOHEXYLBENZENE	160.259	280.14	513.27	744.00	28.80	555.1	0.2887	0.258	0.379
255	C12H18	m-DIISOPROPYLBENZENE	162.275	210.02	476.33	684.00	24.50	600.0	0.2705	0.258	0.359
250 257	C12H18	D-UIISOPKOPILBENZENE	162.275	212 00	483.03	608 00	24.50	598.U 618.0	0.2/14	0.250	0.390
258	C12H20O4	DIBUTYL MALEATE	228.288	188.15	553.15	716.00	19.00	719.0	0.2020	0.229	0.899
259	C12H22	BICYCLOHEXYL	166.307	276.78	512.19	727.00	25.60	598.0	0.2781	0.253	0.428
260	C12H23N	DICYCLOHEXYLAMINE	181.321	273.05	529.00	737.00	25.20	619.0	0.2929	0.255	0.513
261	C12H24	1-DODECENE	168.323	237.93	486.50	657.00	18.90	700.0	0.2405	0.242	0.564
262	C12H24O	1-DODECANAL	184.322	285.15	523.15	685.00	18.60	685.0	0.2691	0.224	0.754
263	C12H24U2	n-DODECANOIC ACID	170 338	263 57	489 47	734.00 658 20	19.40	705.0 726.8	0.2041	0.224	0.967
265	C12H260	DI-n-HEXYL ETHER	186.338	230.15	498.85	658.00	18.16	698.0	0.2670	0.232	0.711
266	C12H26O	1-DODECANOL	186.338	296.95	535.00	721.00	19.30	696.0	0.2677	0.224	0.639
267	C12H26O3	DIETHYLENE GLYCOL DI-n-BUTYL ETHER	218.337	212.95	529.15	680.00	17.60	803.0	0.2719	0.250	0.846
268	C12H26S	N-DODECYL MERCAPIAN	202.404	202.15	547.75	7/2 15	18.40	729.0	0.2/76	0.223	0.677
209 270	C12H27N	DODECTI AMINE	185 353	301 47	532 35	696 NN	18.80	735 N	0.2000	0.270	0.109
271	C12H27N	TRI-n-BUTYLAMINE	185.353	203.00	487.15	644.00	18.00	735.0	0.2522	0.247	0.694
272	C13H10	FLUORENE	166.222	387.94	570.44	870.00	47.00	400.0	0.4156	0.260	0.349
273	C13H100	BENZOPHENONE	182.222	321.35	579.24	816.00	30.10	591.0	0.3083	0.262	0.545
274	C13H12	DIPHENYLMETHANE	168.238	298.39	537.42	768.00	29.20	547.0	0.3076	0.250	0.462
275	C13H20	n-HEPTYLBENZENE	1/6.302	225.15	519.25	/14.00	21.80	648.0	0.2/21	0.238	0.529
210 277	C13H260	1-TRIDECENE 1-TRIDECANAI	102.349	288 15	540 15	700 00	17.70	738 N	0.2412	0.230	0.012
278	C13H26O2	n-BUTYL NONANOATE	214.348	235.15	503.00	652.00	17.40	794.0	0.2700	0.255	0.828
279	C13H26O2	METHYL DODECANOATE	214.348	278.15	540.00	712.00	17.40	758.0	0.2828	0.223	0.690
280	C13H28	n-TRIDECANE	184.365	267.76	508.62	675.80	17.23	770.0	0.2394	0.236	0.619
281	C13H280	1-TRIDECANOL	200.365	303.75	547.15	731.00	18.10	749.0	0.2675	0.223	0.627
282	C14H802	ANTIBACENE	208.216	229.15	655.05	900.00	51.50	544.0	0.3828	0.229	0.681
287	C14#10	NIDHENYLACETYLENE	178 233	407.27 335 65	573 00	832 00	29.00 29.00	554.U 611 N	0.3217	0.254	0.469 በ. 3 ጸፈ
285	C14H10	PHENANTHRENE	178.233	372.38	613.45	869.25	29.00	554.0	0.3217	0.222	0.495
286	C14H12	cis-STILBENE	180.249	268.15	535.00	757.00	27.40	584.0	0.3086	0.254	0.471
287	C14H12	trans-STILBENE	180.249	397.35	579.65	820.00	27.40	578.0	0.3118	0.232	0.490
288	C14H12O2	BENZYL BENZOATE	212.248	292.55	596.65	820.00	25.80	694.0	0.3058	0.263	0.623
289	C74H74	DIETHYLENE GLYCOL DI-n-BUTYL ETHER n-DODECYL MERCAPTAN TRI-n-BUTYL BORATE DODECYLAMINE TRI-n-BUTYLAMINE FLUORENE BENZOPHENONE DIPHENYLMETHANE n-HEPTYLBENZENE 1-TRIDECENE 1-TRIDECENE 1-TRIDECANAL n-BUTYL NONANOATE METHYL DODECANOATE n-TRIDECANE 1-TRIDECANE 1-TRIDECANE 1-TRIDECANE 1-TRIDECANOL ANTHRAQUINONE ANTHRACENE DIPHENYLACETYLENE PHENANTHRENE cis-STILBENE trans-STILBENE BENZYL BENZOATE 1-1-DIPHENYLETHANE	102.205	200.20	242./8	(/5.00	20.80	604.0	U.3U18	U.251	U.45/

NO	EODMIII A	NAME 1-2-DIPHENYLETHANE DIBENZYL ETHER 1-n-BUTYLNAPHTHALENE n-OCTYLBENZENE p-tert-OCTYLPHENOL 1-TETRADECENE n-TETRADECANOIC ACID n-TETRADECANOL TETRADECANOL TETRADECYLAMINE DIPHENYLMETHANE-4-4'-DIISOCYANATE p-CUMYLPHENOL	MW a (ma l	T _F	T _B	Τ _C	P _C	V _c cm³/mol	$\rho_{\rm C}$	7	
	FORMULA	NAME	9/1101				bar	CIII / IIIO C	9/011	Z _c	ω
290	C14H14	1-2-DIPHENYLETHANE	182.265	324.34	553.65	780 - 00	26.50	606.0	0.3008	0.248	
291	C14H14O	DIBENZYL ETHER	198.265	276.75	561.45	777.00	25.60	608.0	0.3261	0.241	0.591
292	C14H16	1-n-BUTYLNAPHTHALENE	184.281	253.43	562.54	792.00	26.80	631.0	0.2920	0.257	0.495
293	C14H22	n-OCTYLBENZENE	190.329	237.15	537.55	729.00	20.20	703.0	0.2707	0.234	0.572
294	C14H22O	p-tert-OCTYLPHENOL	206.328	358.55	563.60	765.00	22.80	704.0	0.2931	0.252	0.631
295	C14H20	D-TETRADECANOIC ACID	190.376	200.30 327.55	500 35	754 00	17.00	817.0	0.2404 0.2816		0.648 1.025
297	C14H2002	n-TETRADECANOIC ACID	198.392	279.01	526.73	692.40	16.21	842.8	0.2354	0.237	
298	C14H300	1-TETRADECANOL	214.392	310.65	560.15	741.00	17.00	802.0	0.2673	0.221	0.677
299	C14H31N	TETRADECYLAMINE	213.407	311.34	564.45	722.30	16.60	887.0	0.2406	0.245	0.860
300	C15H10N2O2	DIPHENYLMETHANE-4-4'-DIISOCYANATE	250.257	311.20	609.00	802.00	22.80	712.0	0.3515	0.243	0.950
301	C15H160	p-CUMYLPHENOL	212.291	346.00	608.15	834.00	26.80	659.0	0.3221	0.255	0.660
302	C15H16UZ	BISPHENUL A	228.291	2/0 00	555 20	7/1 00	18 05	700 N	0.3372	0.281	0.945 0.638
304	C15H24O	2-6-DI-tert-BUTYL-p-CRESOL	220.355	344.00	538.00	720.00	21.10	757.0	0.2911	0.267	0.686
305	C15H24O	NONYLPHENOL	220.355		581.00	757.00	20.70	757.0	0.2911	0.249	0.900
306	C15H30	1-PENTADECENE	210.403	269.42	541.61	708.00	15.70	875.0	0.2405	0.233	0.684
307	C15H30O2	PENTADECANOIC ACID	242.402	325.68	612.05	766.00	16.00	864.0	0.2806	0.217	1.040
308	C15H32	n-PENTADECANE	212.419	283.11	543.83	706.80	15.20	880.0	0.2414	0.228	0.705
309	C16H10	FLUORANTHENE	202.255	383.33	655.95	905.00	26.10	655.0	0.3088	0.227	0.588
310	C16H1U	1-DUENVI NADUTUAI ENE	202.255	423.81	607.90	936.00	26.10	650.0	0.3210	0.211	0.509
312	C16H20	1-p-HEYYI NADHTHAI ENE	212 335	255 15	505 15	813 00	20.30	741 0	0.3114	0.244	0.531
313	C16H22O4	DIBUTYL PHTHALATE	278.348	238.15	613.15	781.00	17.50	846.0	0.3290	0.228	0.947
314	C16H26	n-DECYLBENZENE	218.382	258.77	571.04	753.00	17.70	881.0	0.2479	0.249	0.681
315	C16H32	n-DECYLCYCLOHEXANE	224.430	271.42	570.75	751.25	16.50	858.0	0.2616	0.227	0.663
316	C16H32	1-HEXADECENE	224.430	277.51	558.02	722.00	14.80	933.0	0.2405	0.230	0.732
317	C16H32O2	n-HEXADECANOIC ACID	256.429	335.95	624.15	776.00	15.10	917.0	0.2796	0.215	1.083
318	C16H34	n-HEXADECANE	226.446	291.34	560.01	720.60	14.19	930.0	0.2435	0.220	0.747
320	C16H34O	1-HEVADECANOL	242.443	702.77	595 15	761.00	15 10	910.0	0.2004	0.223	0.934
321	C17H28	n-UNDECYLBENZENE	232.409	268.00	586.40	764.00	16.72	910.0	0.2554	0.240	0.738
322	C17H34	1-HEPTADECENE	238.457	284.40	573.48	736.00	14.10	955.0	0.2497	0.220	0.753
323	C17H36	n-HEPTADECANE	240.473	295.13	575.30	733.37	13.17	1005.8	0.2391	0.217	0.768
324	C17H360	1-HEPTADECANOL	256.472	327.05	597.15	770.00	14.30	960.0	0.2672	0.214	0.795
325	C18H12	CHRYSENE	228.293	531.15	714.15	979.00	23.90	690.0	0.3309	0.213	0.604
326	C18H14	m-TERPHENYL	230.309	360.00	650.00	924.85	35.06	767.7	0.3000	0.350	0.558
327	C18H14	o-TERPHENYL	230.309	329.35	609.00	890.95	39.01	752.6	0.3060	0.396	0.467
320	C10814 C18H15P	D-IEKAUENIC D-IEKAUENIC	262 201	465.00 35/. //	650 15	1008 00	33.24 78 //0	702.0 554.0	0.3020	0.329	0.520
330	C18H15O4P	TRIPHENYL PHOSPHATE	326.288	323.15	686.65		70.40			0.510	
331	C18H16N2	N-N'-DIPHENYL-p-PHENYLENEDIAMINE	260.339	409.00	688.00	906.00	23.10	817.0	0.3187	0.251	0.876
332	C18H22	2-3-DIMETHYL-2-3-DIPHENYLBUTANE	238.373	392.15	589.00	805.00	19.90	781.0	0.3052	0.232	0.521
333	C18H22O2	DICUMYL PEROXIDE	270.371	311.15	669.00	884.00	21.80	873.0	0.3097	0.259	0.450
334	C18H30	n-DODECYLBENZENE	246.436	275.93	600.76	774.26	15.79	1000.0	0.2464	0.245	0.786
333	C18H3Z0Z	CLERC ACID	280.451	268.15	628.00	775.00	14.10	990.0	0.2833	0.21/	1.1/6
330	C10H3402	DIRITY SERACATE	202.401 31/. ///	263.05	622 15	768 00	13.90	1050.0	0.2023	0.214	1.107
338	C18H34O4	DIHEXYL ADIPATE	314.466	250 35	621 15	767 00	13.20	1030.0	0.2773	0.217	1 104
339	C18H36	1-OCTADECENE	252.484	290.76	587.97	748.00	13.40	1050.0	0.2405	0.226	0.790
340	C18H36O2	n-TETRADECANG TETRADECYLAMINE DIPHENYLMETHANE-4-4'-DIISOCYANATE p-CUMYLPHENOL BISPHENOL A n-NONYLBENZENE 2-6-DI-tert-BUTYL-p-CRESOL NONYLPHENOL 1-PENTADECENE PENTADECANE FLUORANTHENE PYRENE 1-PHENYLNAPHTHALENE 1-PHENYLNAPHTHALENE 1-PHENYLNAPHTHALENE DIBUTYL PHTHALATE n-DECYLEWZENE n-DECYLCYCLOHEXANE 1-HEXADECANOL n-HEXADECANOL n-HEXADECANOL n-HEXADECANOL n-HEXADECANOL n-HEXADECANOL n-HEXADECANOL n-HEXADECANOL n-HEXADECANOL T-HEYADECANOL T-HEYADECANOL T-HEYADECANOL D-HEYADECANOL D-HEYADECANOL D-HEYADECANOL D-HEYBENYL D-TERPHENYL D-TERPHENYL D-TERPHENYL D-TERPHENYL D-TERPHENYL D-TERPHENYL D-TERPHENYL D-TERPHENYL D-TERPHENYL D-TODECYLBENZENE LINOLEIC ACID OLEIC ACID OLEIC ACID OLEIC ACID OLEIC ACID OLEIC ACID DIBUTYL SEBACATE DIHEXYL ADIPATE 1-O-CTADECANE DINONYL ETHER 1-O-CTADECANE DINONYL ETHER 1-O-CTADECANE DINONYL ETHER 1-O-CTADECANE DINONYL ETHER 1-O-CTADECANE T-RIPHENYL-PHALENE DINONYL ETHER 1-O-CTADECANE T-RIPHENYL-PHALENE T-R	284.483	342.75	648.35	799.00	13.60	1020.0	0.2789	0.209	1.084
341	C18H38	n-OCTADECANE	254.500	301.33	589.86	745.26	12.14	1070.0	0.2379	0.210	0.795
342	C18H380	DINONYL ETHER	270.499		591.00	736.00	13.00	1020.0	0.2652	0.217	1.002
343	C10H380	1-UCTADECANOL	270.499	331.05	608.15	(((.00	15.60	1010.0	0.2678	0.213	0.863
344 3/5	C170120	TOTAL TENENT IN THE TENENT IN	260 /47	204.15 287 1F	61/ /7	787 OO	15.00	1060.0	U.2044	0.238	0.01/
346	C19H3602	METHYL OLFATE	200.403	203.13	617 00	764 00	12 80	1060.0	0.2437	0.244	1.044
347	C19H38	1-NONADECENE	266.511	296.55	602.17	760.00	12.80	1100.0	0.2423	0.223	0.841
348	C19H38O2	NONADECANOIC ACID	298.510	341.23	659.15	810.00	13.00	1080.0	0.2764	0.208	1.070
349	C19H40	n-NONADECANE	268.527	305.33	603.05	755.93	11.17	1130.0	0.2376	0.201	0.820
350	C20H16	TRIPHENYLETHYLENE	256.347	342.15	669.00	908.00	21.00	860.0	0.2981	0.239	0.600
351	C20H28	1-n-DECYLNAPHTHALENE	268.442	288.15	652.00	859.00	15.80	1070.0	0.2509	0.237	0.642
352	C20H30O2	ABIETIC ACID	302.457	446.65	649.70	832.00	16.80	930.0	0.3252	0.226	1.129
355	C20H5TN	DENTDRUABLETYLAMINE	285.473	517.65	660.00	863.00	17.00	1020.0	0.2799	0.242	0.742
355	C20H40	D-FICOSANE	282 557	301./6	616.07	767 04	10.20	1100.0	0.2418 0.27/	0.221	0.874 0.874
356	C20H420	1-EICOSANOL	298 553	338 55	629 15	792 00	12.40	1120.0	0.2574	0.174	0.937
357	C21H21O4P	TRI-o-CRESYL PHOSPHATE	368.369	240.15							
358	C22H44O2	n-BUTYL STEARATE	340.590	299.45	623.15	764.00	11.10	1230.0	0.2769	0.215	1.035
359	C24H38O4	DIISOOCTYL PHTHALATE	390.563		694.00	851.00	11.80	1420.0	0.2750	0.237	1.088
360	C24H38O4	DIOCTYL PHTHALATE	390.563	223.15	657.15	806.00	11.80	1270.0	0.3075	0.224	1.142
361	C24H4ZO	DINONYLPHENOL TETRADUENYLETIYLENE	346.597	/0/ 45	722.00	00.688	12.40	1220.0	0.2841	0.205	1.136
272 205	C28H440/	DITCODECY DUTHALATE	332.445 446 471	490.75	707.00	990.00	17.10	1020.0	0.5259	0.211	U./29
		DII SONECIL FRIRALATE	440.0/1	261.39	123.00	001.00	10.00	1400.0	U.JUJY	0.170	1.070

Appendix E

GAS HEAT CAPACITY FOR C₈ TO C₂₈ COMPOUNDS

Carl L. Yaws
Lamar University, Beaumont, Texas

 $C_P = A + B T + C T^2 + D T^3 + E T^4$ ($C_P - joule/g-mol K, T - K$) NAME

A

B

C

D

E

TMIN TMAX

ISOPHTHALOYL CHLORIDE

32.762
5.2222E-01
-3.3597E-04
9.0843E-08
-9.2349E-12
298
1200
PHTHALIC ANHYDRIDE
40.083
3.6084E-02
9.5956E-04
-1.2341E-06
4.6597E-10
298
1500
ISOPHTHALIC ACID
-48.374
6.9316E-01
-4.1468E-04
7.2676E-08
8.1593E-12
298
1500
PHTHALIC ACID
-48.374
6.9316E-01
-4.1468E-04
7.2676E-08
8.1593E-12
298
1500
PHTHALIC ACID
-48.374
6.9316E-01
-4.1468E-04
7.2676E-08
8.1593E-12
298
1500
ITEREPHTHALIC ACID
-48.374
6.9316E-01
-4.1468E-04
7.2676E-08
8.1593E-12
298
1500
INDOLE
-48.374
6.9316E-01
-4.1468E-04
7.2676E-08
8.1593E-12
298
1500
INDOLE
-48.374
6.9316E-01
-4.1468E-04
7.2676E-08
8.1593E-12
298
1500
INDOLE
-44.348
7.0422E-01
-5.3642E-04
-7.6576E-01
-7.036E-11
200
INDOLE
-44.384
6.3161E-01
-3.8644E-04
9.1755E-08
-2.9424E-12
298
1500
METHYL BENZOATE
-44.363
6.6062E-01
-3.0730E-04
-7.6698E-08
7.8555E-11
298
1200
METHYL BENZOATE
-44.363
6.6062E-01
-3.0730E-04
-7.6698E-08
7.8555E-11
298
1200
METHYL SALICYLATE
-64.438
9.2054E-01
-14.8726E-04
-8.7808E-07
-7.7290E-10
298
1000
METHYL SALICYLATE
-64.438
9.2054E-01
-5.8213
3.2470E-01
-5.8646E-04
-8.7808E-07
-7.7909E-10
298
1000
METHYL SALICYLATE
-64.438
9.2054E-01
-5.8646E-04
-8.7808E-07
-1.7590E-11
298
1500
METHYL SALICYLATE
-64.438
-6.316E-01
-5.831
3.2470E-01
-5.831
3.2470E-01
-5.831
3.2470E-01
-5.866E-04
-8.7808E-07
-7.7909E-10
298
1000
METHYL SALICYLATE
-64.438
-6.364E-01
-5.9239E-04
-7.6698E-08
-7.850E-01
-7.850E-08
-7.850E-01
-7.850E-04
-7.8698E-08
-7.850E-01
-7.85 NO FORMULA 1 C8H4Cl2O2 ISOPHTHALOYL CHLORIDE 2 C8H4O3 3 C8H6O4 4 C8H6O4 4 C8H604 PHTHALIC ACID
5 C8H604 TEREPHTHALIC
6 C8H6S BENZOTHIOPHEN
7 C8H7N INDOLE
8 C8H8 STYRENE
9 C8H80 ACETOPHENONE
10 C8H80 P-TOLUALDEHYD 10 C8H8O 11 C8H8O2 12 C8H8O2 13 C8H8O2 14 C8H8O3 15 C8H8O3 16 C8H9NO 17 C8H10 18 C8H10 O-XYLENE 19 C8H10 20 C8H10 21 C8H100 22 C8H100 23 C8H100 PHENETOLE -70.622 8.7227E-01 -7.3933E-04 2.3945E-07 -6.7682E-11 298 1500
2.9-PIENYLETHANOL -41.581 7.7144E-01 -6.0352E-04 2.4945E-07 -4.5938E-11 298 1500
2.4-XYLENOL 5.637 6.6110E-01 -4.6084E-04 1.6135E-07 -2.2812E-11 200 1500
2.4-XYLENOL -0.097 6.4699E-01 -4.0504E-04 1.5240E-07 -1.8683E-11 200 1500
2.6-XYLENOL -5.010 7.824E-01 -5.6191E-04 2.3462E-07 -1.3721E-11 200 1500
3.6-XYLENOL -5.010 7.824E-01 -5.6191E-04 2.3462E-07 -4.1599E-11 200 1500
3.5-XYLENOL -5.010 7.824E-01 5.6191E-04 2.3462E-07 -4.1599E-11 200 1500
3.5-XYLENOL -5.010 7.824E-01 5.6191E-04 2.3462E-07 -4.1599E-11 200 1500
3.5-XYLENOL -5.010 7.824E-01 5.6191E-04 2.3462E-07 -5.759E-11 298 1500
0-ETHYLANILINE -80.587 9.3415E-01 7.68070E-04 3.262E-07 5.759E-11 298 1500
0-ETHYLANILINE -44.959 7.562E-01 -4.7616E-04 1.2000-07 -5.515E-11 298 1500
0-ETHYLANILINE -44.959 7.562E-01 -4.7616E-04 1.2000-07 -5.515E-11 298 1500
0-ETHYLANILINE -44.959 7.562E-01 -4.7616E-04 1.2000-7 -5.515E-11 298 1500
0-ETHYLANILINE -44.959 7.562E-01 -4.7616E-04 1.2000-7 -5.515E-11 298 1500
0-ETHYLORITEMYLPYRDIDINE -44.959 7.562E-01 -4.7616E-04 1.2000-7 -5.515E-11 298 1500
0-ETHYLORITEMYLPYRDIDINE -44.959 7.562E-01 -4.7616E-04 1.2000-7 -5.515E-11 298 1500
1,5-CYCLOOCTADIENE -4.959 7.562E-01 -4.7616E-04 1.2000-7 -5.0891E-11 298 1500
1,5-CYCLOOCTADIENE -4.959 7.562E-01 -4.7616E-04 1.2000-7 -5.0891E-11 298 1500
1,5-CYCLOOCTADIENE -5.1893 1.0235E+00 -9.0308E-04 -4.0302E-07 1.0396E-10 298 1500
1,5-CYCLOOCTADIENE -5.1893 1.0235E+00 -9.0308E-04 -4.7350E-07 1.6796E-10 298 1500
1,5-CYCLOOCTADIENE -5.1893 1.0235E+00 -9.0308E-04 -4.0995E-07 1.0596E-10 200 1500
1,5-CYCLOOCTADIENE -5.1893 1.0235E+00 -9.3080E-04 -5.0995E-07 1.6796E-10 200 1500
1,5-CYCLOOCTADIENE -5.1893 1.0235E+00 -9.3080E-04 -4.9095E-07 1.660E-10 200 1500
1,5-CYCLOOCTADIENE -5.1893 1.0235E-00 -5.626E-0 24 C8H100 25 C8H100 26 C8H100 27 C8H100 28 C8H100 29 C8H100 30 C8H100 31 C8H11N 32 C8H11N 33 C8H11N 34 C8H11NO 35 C8H12 36 C8H12 37 C8H12O4 38 C8H12O4 39 C8H14O2 40 C8H14O3 41 C8H14O4 42 C8H16 1,1-DIMETHYLCYCLOHEXANE
43 C8H16 cis-1,2-DIMETHYLCYCLOHEXANE
44 C8H16 trans-1,2-DIMETHYLCYCLOHEXANE
45 C8H16 cis-1,3-DIMETHYLCYCLOHEXANE
46 C8H16 trans-1,3-DIMETHYLCYCLOHEXANE
46 C8H16 trans-1,3-DIMETHYLCYCLOHEXANE cis-1,4-DIMETHYLCYCLOHEXANE trans-1,4-DIMETHYLCYCLOHEXANE 48 C8H16 49 C8H16 50 C8H16 51 C8H16 52 C8H16 trans-2-OCTENE 53 C8H16 54 C8H16 55 C8H16 56 C8H16 57 C8H16 58 C8H16 59 C8H16O 60 C8H160 61 C8H160 62 C8H16O2 n-BUTYL n-BUTYRATE

6 CORNIGOZ 7 CORNIG 7									
63 C8H1602 HEXYL ACEIATE	NO	FORMULA	NAME	Α	В	С	D	E 1	TMIN TMAX
67 CBH18 2,2-DIRETHYLHEXANE 9-,102 7,9198-01 -1,04358-04 1,1094-07 -7,1098-10 200 1500 600 600 600 600 600 600 600 600 600									
67 CBH18 2,2-DIRETHYLHEXANE 9-10.7 (7.9186-10) 4.3338-0.4 (1.3338-0.4) 7.10946-07 9-1795-12 (20) 1500 6.0 (20) 1818 2,2-DIRETHYLHEXANE 9-10.7 (1.9186-10) 4.3338-0.4 (1.3338-0.4) 7.10946-07 9-1795-12 (20) 1500 6.0 (20) 1818 2,5-DIRETHYLHEXANE 9-10.7 (1.9186-10) 4.3338-0.4 (1.3338-0.4) 7.10946-07 9-1795-12 (20) 1500 7.1 (20) 1818 2,5-DIRETHYLHEXANE 9-10.7 (1.9186-10) 4.3338-0.4 (1.3338-0.4) 4.2646-0.7 (1.9086-11) 200 1500 7.1 (20) 1818 3,4-DIRETHYLHEXANE 9-10.7 (1.9186-10) 4.2646-0.4 (1.9086-0.7) 4.0960-11 (20) 1500 7.1 (20) 1818 3,4-DIRETHYLHEXANE 9-10.4 (1.9186-0.4) 4.2646-0.4 (1.9186-0.4) 4.3458-0.4 (1.9186-0.4) 4.2646-0.7 (1.9580-0.4) 4.0960-11 (20) 1500 7.1 (20) 1818 3.4-DIRETHYLHEXANE 9-10.4 (1.9186-0.4) 4.2646-0		C8H16O2	n-HEXYL ACETATE	-46.949	1.0667E+00	-9.5577E-04	4.7655E-07	-9.8701E-11	298 1500
67 CBH18 2,2-DIRETHYLHEXANE 9-10.7 (7.9186-10) 4.3338-0.4 (1.3338-0.4) 7.10946-07 9-1795-12 (20) 1500 6.0 (20) 1818 2,2-DIRETHYLHEXANE 9-10.7 (1.9186-10) 4.3338-0.4 (1.3338-0.4) 7.10946-07 9-1795-12 (20) 1500 6.0 (20) 1818 2,5-DIRETHYLHEXANE 9-10.7 (1.9186-10) 4.3338-0.4 (1.3338-0.4) 7.10946-07 9-1795-12 (20) 1500 7.1 (20) 1818 2,5-DIRETHYLHEXANE 9-10.7 (1.9186-10) 4.3338-0.4 (1.3338-0.4) 4.2646-0.7 (1.9086-11) 200 1500 7.1 (20) 1818 3,4-DIRETHYLHEXANE 9-10.7 (1.9186-10) 4.2646-0.4 (1.9086-0.7) 4.0960-11 (20) 1500 7.1 (20) 1818 3,4-DIRETHYLHEXANE 9-10.4 (1.9186-0.4) 4.2646-0.4 (1.9186-0.4) 4.3458-0.4 (1.9186-0.4) 4.2646-0.7 (1.9580-0.4) 4.0960-11 (20) 1500 7.1 (20) 1818 3.4-DIRETHYLHEXANE 9-10.4 (1.9186-0.4) 4.2646-0	64	C8H16O2	ISOBUTYL ISOBUTYRATE	-78.711	1.1911E+00	-1.1320E-03	5.8376E-07	-1.2228E-10	298 1500
115 C9H1002 ETHYL BENZOATE -91.208 1.0326E+00 -9.5250E-04 4.6492E-07 -9.0498E-11 298 1500 116 C9H1003 ETHYL VANILLIN -34.060 9.0152E-01 -6.1072E-04 1.8656E-07 -2.7428E-11 298 1200 117 C9H11NO p-DIMETHYLAMINOBENZALDEHYDE -65.931 9.6897E-01 -6.6584E-04 1.8803E-07 -1.2951E-11 298 1500	65	C8H16U2	N-OCTANOIC ACID	-20.242	9.9093E-01	-9.23/UE-U4	5.502/E-0/	-1.5434E-10	298 1000
115 C9H1002 ETHYL BENZOATE -91.208 1.0326E+00 -9.5250E-04 4.6492E-07 -9.0498E-11 298 1500 116 C9H1003 ETHYL VANILLIN -34.060 9.0152E-01 -6.1072E-04 1.8656E-07 -2.7428E-11 298 1200 117 C9H11NO p-DIMETHYLAMINOBENZALDEHYDE -65.931 9.6897E-01 -6.6584E-04 1.8803E-07 -1.2951E-11 298 1500	67	C8H18U4	2 2-DIMETHYLHEVANE	-01.037	7 01085-01	-1.0049E-03	1 100/5-07	-0 10756-10	298 1500
115 C9H1002 ETHYL BENZOATE -91.208 1.0326E+00 -9.5250E-04 4.6492E-07 -9.0498E-11 298 1500 116 C9H1003 ETHYL VANILLIN -34.060 9.0152E-01 -6.1072E-04 1.8656E-07 -2.7428E-11 298 1200 117 C9H11NO p-DIMETHYLAMINOBENZALDEHYDE -65.931 9.6897E-01 -6.6584E-04 1.8803E-07 -1.2951E-11 298 1500	68	CSH18	2 3-DIMETHYLHEYANE	-45 246	0 71255-01	-7 6224E-04	3 /801F-07	-7.1973E-12	200 1500
115 C9H1002 ETHYL BENZOATE -91.208 1.0326E+00 -9.5250E-04 4.6492E-07 -9.0498E-11 298 1500 116 C9H1003 ETHYL VANILLIN -34.060 9.0152E-01 -6.1072E-04 1.8656E-07 -2.7428E-11 298 1200 117 C9H11NO p-DIMETHYLAMINOBENZALDEHYDE -65.931 9.6897E-01 -6.6584E-04 1.8803E-07 -1.2951E-11 298 1500	69	C8H18	2 4-DIMETHYLHEXANE	-35 844	9.7123E-01	-7 9337F-04	3.4071E-07	-8.0700F-11	200 1500
115 C9H1002 ETHYL BENZOATE -91.208 1.0326E+00 -9.5250E-04 4.6492E-07 -9.0498E-11 298 1500 116 C9H1003 ETHYL VANILLIN -34.060 9.0152E-01 -6.1072E-04 1.8656E-07 -2.7428E-11 298 1200 117 C9H11NO p-DIMETHYLAMINOBENZALDEHYDE -65.931 9.6897E-01 -6.6584E-04 1.8803E-07 -1.2951E-11 298 1500	70	C8H18	2.5-DIMETHYLHEXANE	-32.363	9.0722E-01	-6.5105E-04	2.6842E-07	-4.9960E-11	200 1500
115 C9H1002 ETHYL BENZOATE -91.208 1.0326E+00 -9.5250E-04 4.6492E-07 -9.0498E-11 298 1500 116 C9H1003 ETHYL VANILLIN -34.060 9.0152E-01 -6.1072E-04 1.8656E-07 -2.7428E-11 298 1200 117 C9H11NO p-DIMETHYLAMINOBENZALDEHYDE -65.931 9.6897E-01 -6.6584E-04 1.8803E-07 -1.2951E-11 298 1500	71	C8H18	3.3-DIMETHYLHEXANE	-37.306	9.6180E-01	-7.3386E-04	3.2761E-07	-6.5298E-11	200 1500
115 C9H1002 ETHYL BENZOATE -91.208 1.0326E+00 -9.5250E-04 4.6492E-07 -9.0498E-11 298 1500 116 C9H1003 ETHYL VANILLIN -34.060 9.0152E-01 -6.1072E-04 1.8656E-07 -2.7428E-11 298 1200 117 C9H11NO p-DIMETHYLAMINOBENZALDEHYDE -65.931 9.6897E-01 -6.6584E-04 1.8803E-07 -1.2951E-11 298 1500	72	C8H18	3,4-DIMETHYLHEXANE	-59.720	1.0415E+00	-8.8492E-04	4.3894E-07	-9.4154E-11	200 1500
115 C9H1002 ETHYL BENZOATE -91.208 1.0326E+00 -9.5250E-04 4.6492E-07 -9.0498E-11 298 1500 116 C9H1003 ETHYL VANILLIN -34.060 9.0152E-01 -6.1072E-04 1.8656E-07 -2.7428E-11 298 1200 117 C9H11NO p-DIMETHYLAMINOBENZALDEHYDE -65.931 9.6897E-01 -6.6584E-04 1.8803E-07 -1.2951E-11 298 1500	73	C8H18	3-ETHYLHEXANE	16.214	6.6412E-01	-2.2656E-04	-5.1790E-08	3.5344E-11	200 1500
115 C9H1002 ETHYL BENZOATE -91.208 1.0326E+00 -9.5250E-04 4.6492E-07 -9.0498E-11 298 1500 116 C9H1003 ETHYL VANILLIN -34.060 9.0152E-01 -6.1072E-04 1.8656E-07 -2.7428E-11 298 1200 117 C9H11NO p-DIMETHYLAMINOBENZALDEHYDE -65.931 9.6897E-01 -6.6584E-04 1.8803E-07 -1.2951E-11 298 1500	74	C8H18	3-ETHYL-2-METHYLPENTANE	-7.477	7.7747E-01	-4.2844E-04	9.1763E-08	0.0000E+00	298 1000
115 C9H1002 ETHYL BENZOATE -91.208 1.0326E+00 -9.5250E-04 4.6492E-07 -9.0498E-11 298 1500 116 C9H1003 ETHYL VANILLIN -34.060 9.0152E-01 -6.1072E-04 1.8656E-07 -2.7428E-11 298 1200 117 C9H11NO p-DIMETHYLAMINOBENZALDEHYDE -65.931 9.6897E-01 -6.6584E-04 1.8803E-07 -1.2951E-11 298 1500	75	C8H18	2-METHYLHEPTANE	-3.367	7.5824E-01	-3.8216E-04	5.7358E-08	8.0178E-12	200 1500
115 C9H1002 ETHYL BENZOATE -91.208 1.0326E+00 -9.5250E-04 4.6492E-07 -9.0498E-11 298 1500 116 C9H1003 ETHYL VANILLIN -34.060 9.0152E-01 -6.1072E-04 1.8656E-07 -2.7428E-11 298 1200 117 C9H11NO p-DIMETHYLAMINOBENZALDEHYDE -65.931 9.6897E-01 -6.6584E-04 1.8803E-07 -1.2951E-11 298 1500	/6	C8H18	3-METHYLHEPTANE	-10.106	7.8/11E-01	-4.3415E-04	9.7487E-08	-2.9023E-12	200 1500
115 C9H1002 ETHYL BENZOATE -91.208 1.0326E+00 -9.5250E-04 4.6492E-07 -9.0498E-11 298 1500 116 C9H1003 ETHYL VANILLIN -34.060 9.0152E-01 -6.1072E-04 1.8656E-07 -2.7428E-11 298 1200 117 C9H11NO p-DIMETHYLAMINOBENZALDEHYDE -65.931 9.6897E-01 -6.6584E-04 1.8803E-07 -1.2951E-11 298 1500	70	CON 10	4-MEINTLHEPIANE	20 057	5 9014E-01	-5.1410E-U4	1.5104E-07	7 461/E-11	200 1500
115 C9H1002 ETHYL BENZOATE -91.208 1.0326E+00 -9.5250E-04 4.6492E-07 -9.0498E-11 298 1500 116 C9H1003 ETHYL VANILLIN -34.060 9.0152E-01 -6.1072E-04 1.8656E-07 -2.7428E-11 298 1200 117 C9H11NO p-DIMETHYLAMINOBENZALDEHYDE -65.931 9.6897E-01 -6.6584E-04 1.8803E-07 -1.2951E-11 298 1500	70	CON IO	2 2 3-TDIMETHYLDENTANE	29.003 -/8 8/7	0 07775-01	-3.7103E-03	3 080/F-07	-8 7211F-11	200 1500
115 C9H1002 ETHYL BENZOATE -91.208 1.0326E+00 -9.5250E-04 4.6492E-07 -9.0498E-11 298 1500 116 C9H1003 ETHYL VANILLIN -34.060 9.0152E-01 -6.1072E-04 1.8656E-07 -2.7428E-11 298 1200 117 C9H11NO p-DIMETHYLAMINOBENZALDEHYDE -65.931 9.6897E-01 -6.6584E-04 1.8803E-07 -1.2951E-11 298 1500	80	C8H18	2 2 4-TRIMETHYLPENTANE	-21 703	8.5849F-01	-5.5323F-04	2.0892F-07	-3.7285F-11	200 1500
115 C9H1002 ETHYL BENZOATE -91.208 1.0326E+00 -9.5250E-04 4.6492E-07 -9.0498E-11 298 1500 116 C9H1003 ETHYL VANILLIN -34.060 9.0152E-01 -6.1072E-04 1.8656E-07 -2.7428E-11 298 1200 117 C9H11NO p-DIMETHYLAMINOBENZALDEHYDE -65.931 9.6897E-01 -6.6584E-04 1.8803E-07 -1.2951E-11 298 1500	81	C8H18	2.3.3-TRIMETHYLPENTANE	-51.678	1.0143E+00	-8.2601E-04	4.0855E-07	-8.9531E-11	200 1500
115 C9H1002 ETHYL BENZOATE -91.208 1.0326E+00 -9.5250E-04 4.6492E-07 -9.0498E-11 298 1500 116 C9H1003 ETHYL VANILLIN -34.060 9.0152E-01 -6.1072E-04 1.8656E-07 -2.7428E-11 298 1200 117 C9H11NO p-DIMETHYLAMINOBENZALDEHYDE -65.931 9.6897E-01 -6.6584E-04 1.8803E-07 -1.2951E-11 298 1500	82	C8H18	2.3.4-TRIMETHYLPENTANE	-53.615	1.0646E+00	-9.6734E-04	5.2516E-07	-1.2149E-10	200 1500
115 C9H1002 ETHYL BENZOATE -91.208 1.0326E+00 -9.5250E-04 4.6492E-07 -9.0498E-11 298 1500 116 C9H1003 ETHYL VANILLIN -34.060 9.0152E-01 -6.1072E-04 1.8656E-07 -2.7428E-11 298 1200 117 C9H11NO p-DIMETHYLAMINOBENZALDEHYDE -65.931 9.6897E-01 -6.6584E-04 1.8803E-07 -1.2951E-11 298 1500	83	C8H18O	DI-n-BUTYL ETHER	86.995	3.4274E-01	3.7493E-04	-5.7832E-07	1.8911E-10	200 1500
115 C9H1002 ETHYL BENZOATE -91.208 1.0326E+00 -9.5250E-04 4.6492E-07 -9.0498E-11 298 1500 116 C9H1003 ETHYL VANILLIN -34.060 9.0152E-01 -6.1072E-04 1.8656E-07 -2.7428E-11 298 1200 117 C9H11NO p-DIMETHYLAMINOBENZALDEHYDE -65.931 9.6897E-01 -6.6584E-04 1.8803E-07 -1.2951E-11 298 1500	84	C8H18O	DI-sec-BUTYL ETHER	-50.577	1.1014E+00	-9.9402E-04	5.1326E-07	-1.1304E-10	298 1200
115 C9H1002 ETHYL BENZOATE -91.208 1.0326E+00 -9.5250E-04 4.6492E-07 -9.0498E-11 298 1500 116 C9H1003 ETHYL VANILLIN -34.060 9.0152E-01 -6.1072E-04 1.8656E-07 -2.7428E-11 298 1200 117 C9H11NO p-DIMETHYLAMINOBENZALDEHYDE -65.931 9.6897E-01 -6.6584E-04 1.8803E-07 -1.2951E-11 298 1500	85	C8H18O	DI-tert-BUTYL ETHER	122.563	1.7324E-01	6.4796E-04	-6.9227E-07	2.0237E-10	200 1500
115 C9H1002 ETHYL BENZOATE -91.208 1.0326E+00 -9.5250E-04 4.6492E-07 -9.0498E-11 298 1500 116 C9H1003 ETHYL VANILLIN -34.060 9.0152E-01 -6.1072E-04 1.8656E-07 -2.7428E-11 298 1200 117 C9H11NO p-DIMETHYLAMINOBENZALDEHYDE -65.931 9.6897E-01 -6.6584E-04 1.8803E-07 -1.2951E-11 298 1500	86	C8H18O	2-ETHYL-1-HEXANOL	-8.577	8.3851E-01	-5.0979E-04	1.4511E-07	-1.4766E-11	298 1500
115 C9H1002 ETHYL BENZOATE -91.208 1.0326E+00 -9.5250E-04 4.6492E-07 -9.0498E-11 298 1500 116 C9H1003 ETHYL VANILLIN -34.060 9.0152E-01 -6.1072E-04 1.8656E-07 -2.7428E-11 298 1200 117 C9H11NO p-DIMETHYLAMINOBENZALDEHYDE -65.931 9.6897E-01 -6.6584E-04 1.8803E-07 -1.2951E-11 298 1500	87	C8H18O	1-OCTANOL	13.196	7.2493E-01	-2.7623E-04	-5.8380E-08	4.5179E-11	200 1500
115 C9H1002 ETHYL BENZOATE -91.208 1.0326E+00 -9.5250E-04 4.6492E-07 -9.0498E-11 298 1500 116 C9H1003 ETHYL VANILLIN -34.060 9.0152E-01 -6.1072E-04 1.8656E-07 -2.7428E-11 298 1200 117 C9H11NO p-DIMETHYLAMINOBENZALDEHYDE -65.931 9.6897E-01 -6.6584E-04 1.8803E-07 -1.2951E-11 298 1500	88	C8H18O	2-OCTANOL	-23.930	9.4474E-01	-7.0058E-04	2.8277E-07	-4.9163E-11	298 1500
115 C9H1002 ETHYL BENZOATE -91.208 1.0326E+00 -9.5250E-04 4.6492E-07 -9.0498E-11 298 1500 116 C9H1003 ETHYL VANILLIN -34.060 9.0152E-01 -6.1072E-04 1.8656E-07 -2.7428E-11 298 1200 117 C9H11NO p-DIMETHYLAMINOBENZALDEHYDE -65.931 9.6897E-01 -6.6584E-04 1.8803E-07 -1.2951E-11 298 1500	89	C8H18O2	DI-T-BUTYL PEROXIDE	-5.907	9.4614E-U1	-6.7505E-04	2.4895E-U/	-3.9188E-11	298 1500
115 C9H1002 ETHYL BENZOATE -91.208 1.0326E+00 -9.5250E-04 4.6492E-07 -9.0498E-11 298 1500 116 C9H1003 ETHYL VANILLIN -34.060 9.0152E-01 -6.1072E-04 1.8656E-07 -2.7428E-11 298 1200 117 C9H11NO p-DIMETHYLAMINOBENZALDEHYDE -65.931 9.6897E-01 -6.6584E-04 1.8803E-07 -1.2951E-11 298 1500	90	C8H18OZ	DISTRAIGH CLACOL DISTRAIC STREET	0.590	1 050/5400	-3.3000E-U4	7 7727E-07	-1.904/E-11	298 1500
115 C9H1002 ETHYL BENZOATE -91.208 1.0326E+00 -9.5250E-04 4.6492E-07 -9.0498E-11 298 1500 116 C9H1003 ETHYL VANILLIN -34.060 9.0152E-01 -6.1072E-04 1.8656E-07 -2.7428E-11 298 1200 117 C9H11NO p-DIMETHYLAMINOBENZALDEHYDE -65.931 9.6897E-01 -6.6584E-04 1.8803E-07 -1.2951E-11 298 1500	92	C8H18O3	DIFTHYLENE GLICOL DIFINIT FINER	-15 006	0 8704E+00	-6.1310E-04	2 5671F-07	-4 0681F-11	298 1500
115 C9H1002 ETHYL BENZOATE -91.208 1.0326E+00 -9.5250E-04 4.6492E-07 -9.0498E-11 298 1500 116 C9H1003 ETHYL VANILLIN -34.060 9.0152E-01 -6.1072E-04 1.8656E-07 -2.7428E-11 298 1200 117 C9H11NO p-DIMETHYLAMINOBENZALDEHYDE -65.931 9.6897E-01 -6.6584E-04 1.8803E-07 -1.2951E-11 298 1500	93	C8H18O4	TRIETHYLENE GLYCOL DIMETHYL ETHER	-15.847	1.0394E+00	-7-4905E-04	2.8115E-07	-4.5915E-11	298 1500
115 C9H1002 ETHYL BENZOATE -91.208 1.0326E+00 -9.5250E-04 4.6492E-07 -9.0498E-11 298 1500 116 C9H1003 ETHYL VANILLIN -34.060 9.0152E-01 -6.1072E-04 1.8656E-07 -2.7428E-11 298 1200 117 C9H11NO p-DIMETHYLAMINOBENZALDEHYDE -65.931 9.6897E-01 -6.6584E-04 1.8803E-07 -1.2951E-11 298 1500	94	C8H18O5	TETRAETHYLENE GLYCOL	7.854	1.0016E+00	-7.0468E-04	2.6794E-07	-4.8409E-11	298 1200
115 C9H1002 ETHYL BENZOATE -91.208 1.0326E+00 -9.5250E-04 4.6492E-07 -9.0498E-11 298 1500 116 C9H1003 ETHYL VANILLIN -34.060 9.0152E-01 -6.1072E-04 1.8656E-07 -2.7428E-11 298 1200 117 C9H11NO p-DIMETHYLAMINOBENZALDEHYDE -65.931 9.6897E-01 -6.6584E-04 1.8803E-07 -1.2951E-11 298 1500	95	C8H18S	n-OCTYL MERCAPTAN	63.070	4.9322E-01	1.4077E-04	-3.4436E-07	1.1448E-10	200 1500
115 C9H1002 ETHYL BENZOATE -91.208 1.0326E+00 -9.5250E-04 4.6492E-07 -9.0498E-11 298 1500 116 C9H1003 ETHYL VANILLIN -34.060 9.0152E-01 -6.1072E-04 1.8656E-07 -2.7428E-11 298 1200 117 C9H11NO p-DIMETHYLAMINOBENZALDEHYDE -65.931 9.6897E-01 -6.6584E-04 1.8803E-07 -1.2951E-11 298 1500	96	C8H18S	tert-OCTYL MERCAPTAN	-27.449	1.0002E+00	-7.2696E-04	2.4916E-07	-3.1819E-11	298 1500
115 C9H1002 ETHYL BENZOATE -91.208 1.0326E+00 -9.5250E-04 4.6492E-07 -9.0498E-11 298 1500 116 C9H1003 ETHYL VANILLIN -34.060 9.0152E-01 -6.1072E-04 1.8656E-07 -2.7428E-11 298 1200 117 C9H11NO p-DIMETHYLAMINOBENZALDEHYDE -65.931 9.6897E-01 -6.6584E-04 1.8803E-07 -1.2951E-11 298 1500	97	C8H19N	DI-n-BUTYLAMINE	-36.248	1.0025E+00	-7.6232E-04	3.2620E-07	-6.0071E-11	298 1500
115 C9H1002 ETHYL BENZOATE -91.208 1.0326E+00 -9.5250E-04 4.6492E-07 -9.0498E-11 298 1500 116 C9H1003 ETHYL VANILLIN -34.060 9.0152E-01 -6.1072E-04 1.8656E-07 -2.7428E-11 298 1200 117 C9H11NO p-DIMETHYLAMINOBENZALDEHYDE -65.931 9.6897E-01 -6.6584E-04 1.8803E-07 -1.2951E-11 298 1500	98	C8H19N	DIISOBUTYLAMINE	-37.761	9.8864E-01	-6.9887E-04	2.6003E-07	-4.1045E-11	298 1500
115 C9H1002 ETHYL BENZOATE -91.208 1.0326E+00 -9.5250E-04 4.6492E-07 -9.0498E-11 298 1500 116 C9H1003 ETHYL VANILLIN -34.060 9.0152E-01 -6.1072E-04 1.8656E-07 -2.7428E-11 298 1200 117 C9H11NO p-DIMETHYLAMINOBENZALDEHYDE -65.931 9.6897E-01 -6.6584E-04 1.8803E-07 -1.2951E-11 298 1500	99	C8H19N	n-OCTYLAMINE	-11.736	9.0057E-01	-6.1188E-04	2.2599E-07	-3.5786E-11	298 1500
115 C9H1002 ETHYL BENZOATE -91.208 1.0326E+00 -9.5250E-04 4.6492E-07 -9.0498E-11 298 1500 116 C9H1003 ETHYL VANILLIN -34.060 9.0152E-01 -6.1072E-04 1.8656E-07 -2.7428E-11 298 1200 117 C9H11NO p-DIMETHYLAMINOBENZALDEHYDE -65.931 9.6897E-01 -6.6584E-04 1.8803E-07 -1.2951E-11 298 1500	100	C8H23N5	TETRAETHYLENEPENTAMINE	-49.208	1.3828E+00	-1.1462E-03	5.2201E-07	-1.0064E-10	298 1500
115 C9H1002 ETHYL BENZOATE -91.208 1.0326E+00 -9.5250E-04 4.6492E-07 -9.0498E-11 298 1500 116 C9H1003 ETHYL VANILLIN -34.060 9.0152E-01 -6.1072E-04 1.8656E-07 -2.7428E-11 298 1200 117 C9H11NO p-DIMETHYLAMINOBENZALDEHYDE -65.931 9.6897E-01 -6.6584E-04 1.8803E-07 -1.2951E-11 298 1500	101	C8H24U4\$14	UCTAMETHYLCYCLUTETRASILUXANE	-10.762	1.3/22E+00	-8.6062E-04	2.2/99E-0/	-1.4/USE-11	298 1500
115 C9H1002 ETHYL BENZOATE -91.208 1.0326E+00 -9.5250E-04 4.6492E-07 -9.0498E-11 298 1500 116 C9H1003 ETHYL VANILLIN -34.060 9.0152E-01 -6.1072E-04 1.8656E-07 -2.7428E-11 298 1200 117 C9H11NO p-DIMETHYLAMINOBENZALDEHYDE -65.931 9.6897E-01 -6.6584E-04 1.8803E-07 -1.2951E-11 298 1500	102	CONTRO	TOLUENE DIICOCYANATE	-13.209	5 75825-01	2 0/025-0/	-0 06835-07	4 3055E-10	290 1000
115 C9H1002 ETHYL BENZOATE -91.208 1.0326E+00 -9.5250E-04 4.6492E-07 -9.0498E-11 298 1500 116 C9H1003 ETHYL VANILLIN -34.060 9.0152E-01 -6.1072E-04 1.8656E-07 -2.7428E-11 298 1200 117 C9H11NO p-DIMETHYLAMINOBENZALDEHYDE -65.931 9.6897E-01 -6.6584E-04 1.8803E-07 -1.2951E-11 298 1500	103	COH7N	ISCOLLING INF	-18 255	5 8608F-01	-2 5163F-04	-4 1653F-08	3 9647F-11	200 1500
115 C9H1002 ETHYL BENZOATE -91.208 1.0326E+00 -9.5250E-04 4.6492E-07 -9.0498E-11 298 1500 116 C9H1003 ETHYL VANILLIN -34.060 9.0152E-01 -6.1072E-04 1.8656E-07 -2.7428E-11 298 1200 117 C9H11NO p-DIMETHYLAMINOBENZALDEHYDE -65.931 9.6897E-01 -6.6584E-04 1.8803E-07 -1.2951E-11 298 1500	105	C9H7N	QUINOLINE	-21.558	6.0838E-01	-2.9061E-04	-1.2260E-08	3.1722E-11	200 1500
115 C9H1002 ETHYL BENZOATE -91.208 1.0326E+00 -9.5250E-04 4.6492E-07 -9.0498E-11 298 1500 116 C9H1003 ETHYL VANILLIN -34.060 9.0152E-01 -6.1072E-04 1.8656E-07 -2.7428E-11 298 1200 117 C9H11NO p-DIMETHYLAMINOBENZALDEHYDE -65.931 9.6897E-01 -6.6584E-04 1.8803E-07 -1.2951E-11 298 1500	106	C9H7NO	8-HYDROXYQUINOLINE	-62.510	9.7219E-01	-9.3439E-04	4.4959E-07	-8.6601E-11	298 1500
115 C9H1002 ETHYL BENZOATE -91.208 1.0326E+00 -9.5250E-04 4.6492E-07 -9.0498E-11 298 1500 116 C9H1003 ETHYL VANILLIN -34.060 9.0152E-01 -6.1072E-04 1.8656E-07 -2.7428E-11 298 1200 117 C9H11NO p-DIMETHYLAMINOBENZALDEHYDE -65.931 9.6897E-01 -6.6584E-04 1.8803E-07 -1.2951E-11 298 1500	107	C9H8	INDENE	-31.858	6.2986E-01	-3.6332E-04	6.8279E-08	4.9422E-12	200 1500
115 C9H1002 ETHYL BENZOATE -91.208 1.0326E+00 -9.5250E-04 4.6492E-07 -9.0498E-11 298 1500 116 C9H1003 ETHYL VANILLIN -34.060 9.0152E-01 -6.1072E-04 1.8656E-07 -2.7428E-11 298 1200 117 C9H11NO p-DIMETHYLAMINOBENZALDEHYDE -65.931 9.6897E-01 -6.6584E-04 1.8803E-07 -1.2951E-11 298 1500	108	C9H8O	2-METHYLBENZOFURAN	-59.800	8.8351E-01	-8.0230E-04	3.7939E-07	-7.2950E-11	298 1500
115 C9H1002 ETHYL BENZOATE -91.208 1.0326E+00 -9.5250E-04 4.6492E-07 -9.0498E-11 298 1500 116 C9H1003 ETHYL VANILLIN -34.060 9.0152E-01 -6.1072E-04 1.8656E-07 -2.7428E-11 298 1200 117 C9H11NO p-DIMETHYLAMINOBENZALDEHYDE -65.931 9.6897E-01 -6.6584E-04 1.8803E-07 -1.2951E-11 298 1500	109	C9H10	INDANE -	132.570	1.1568E+00	-1.2134E-03	6.6759E-07	-1.4627E-10	298 1500
115 C9H1002 ETHYL BENZOATE -91.208 1.0326E+00 -9.5250E-04 4.6492E-07 -9.0498E-11 298 1500 116 C9H1003 ETHYL VANILLIN -34.060 9.0152E-01 -6.1072E-04 1.8656E-07 -2.7428E-11 298 1200 117 C9H11NO p-DIMETHYLAMINOBENZALDEHYDE -65.931 9.6897E-01 -6.6584E-04 1.8803E-07 -1.2951E-11 298 1500	110	C9H10	alpha-METHYLSTYRENE	24.923	4.3818E-01	-1.3764E-05	-1.8472E-07	7.0450E-11	200 1500
115 C9H1002 ETHYL BENZOATE -91.208 1.0326E+00 -9.5250E-04 4.6492E-07 -9.0498E-11 298 1500 116 C9H1003 ETHYL VANILLIN -34.060 9.0152E-01 -6.1072E-04 1.8656E-07 -2.7428E-11 298 1200 117 C9H11NO p-DIMETHYLAMINOBENZALDEHYDE -65.931 9.6897E-01 -6.6584E-04 1.8803E-07 -1.2951E-11 298 1500	117	C9H1U	M-METHYLSTYRENE	25.882	4.3319E-01	-5.1049E-06	-1.908/E-0/	7.1985E-11	200 1500
115 C9H1002 ETHYL BENZOATE -91.208 1.0326E+00 -9.5250E-04 4.6492E-07 -9.0498E-11 298 1500 116 C9H1003 ETHYL VANILLIN -34.060 9.0152E-01 -6.1072E-04 1.8656E-07 -2.7428E-11 298 1200 117 C9H11NO p-DIMETHYLAMINOBENZALDEHYDE -65.931 9.6897E-01 -6.6584E-04 1.8803E-07 -1.2951E-11 298 1500	112	COUIO	O-METHYL CTYDENE	25.002	4.3319E-UI	-5.1049E-06	-1.900/E-0/	7 10055-11	200 1500
115 C9H1002 ETHYL BENZOATE -91.208 1.0326E+00 -9.5250E-04 4.6492E-07 -9.0498E-11 298 1500 116 C9H1003 ETHYL VANILLIN -34.060 9.0152E-01 -6.1072E-04 1.8656E-07 -2.7428E-11 298 1200 117 C9H11NO p-DIMETHYLAMINOBENZALDEHYDE -65.931 9.6897E-01 -6.6584E-04 1.8803E-07 -1.2951E-11 298 1500	114	C9H1002	RENZYL ACETATE	-64 206	9.3317E-01	-8 0623E-06	2 7233F-07	-1 0633F-12	208 1200
116 C9H1003 ETHYL VANILLIN -34.060 9.0152E-01 -6.1072E-04 1.8656E-07 -2.7428E-11 298 1200 117 C9H11NO p-DIMETHYLAMINOBENZALDEHYDE -65.931 9.6897E-01 -6.6584E-04 1.8803E-07 -1.2951E-11 298 1500	115	C9H10O2							
117 C9H11NO p-DIMETHYLAMINOBENZALDEHYDE -65.931 9.6897E-01 -6.6584E-04 1.8803E-07 -1.2951E-11 298 1500			ETHYL VANILLIN						
			p-DIMETHYLAMINOBENZALDEHYDE						
119 C9H12		C9H12		10.149	5.1138E-01	-1.7703E-05	-2.2612E-07	8.8002E-11	200 1500
120 C9H12		C9H12	m-ETHYLTOLUENE	-7.269	5.9696E-01	-2.0235E-04	-6.2005E-08	3.8692E-11	200 1500
121 C9H12		C9H12	o-ETHYLTOLUENE	8.688	5.5216E-01	-1.5746E-04	-7.9142E-08	4.0458E-11	200 1500
122 C9H12 MESITYLENE -8.737 6.0394E-01 -2.3025E-04 -3.141TE-08 2.8748E-11 200 1500 125 C9H12 1,2,3-TRIMETHYLBENZENE 12.802 5.5862E-01 -1.9088E-04 -4.5260E-08 2.9986E-11 200 1500 125 C9H12 1,2,4-TRIMETHYLBENZENE 7.238 5.5929E-01 -1.7851E-04 -5.9043E-08 3.4337E-11 200 1500 126 C9H120 BENZYL ETHYL ETHER 77.310 9.9168E-01 -8.2953E-04 3.7784E-07 -7.6033E-11 298 1500 127 C9H120 2-PHENYL-2-PROPANOL -42.729 8.6797E-01 -6.3040E-04 2.1037E-07 -2.1293E-11 298 1200 128 C9H1202 CUMENE HYDROPEROXIDE -42.988 9.972TE-01 -9.1932E-04 4.9051E-07 -1.1852E-10 298 1200 129 C9H140 ISOPHORONE -74.479 1.1286E+00 -1.0642E-03 5.8129E-07 -1.4417E-10 298 1200 130 C9H1406 GLYCERYL TRIACETATE -94.112 1.5807E+00 -1.7308E-03 9.5867E-07 -2.0165E-10 298 1200 131 C9H18 ISOPROPYLCYCLOHEXANE -72.808 1.0165E+00 -6.2550E-04 1.7248E-07 -1.4751E-11 298 1500 133 C9H18 1-NONENE 55.655 4.9879E-01 1.0927E-04 -3.1474E-07 1.0691E-10 200 1500 1500 1500 1500 1500 1500 150		C9H12	p-ETHYLTOLUENE	-13.082	6.3055E-01	-2.5570E-04	-2.7145E-08	3.0472E-11	200 1500
125 C9H12		C9H12	MESITYLENE	-8./3/	6.0394E-01	-2.3025E-04	-3.1411E-08	2.8/48E-11	200 1500
125 C9H12 1,2,3-TRIMEINTIDENZENE 7.238 5.5929E-01 -1.7851E-04 -5.9043E-08 3.4337E-11 200 1500 126 C9H120 BENZYL ETHYL ETHER -77.310 9.9168E-01 -8.2953E-04 3.7784E-07 -7.6033E-11 298 1500 127 C9H120 2-PHENYL-2-PROPANOL -42.729 8.6797E-01 -6.3040E-04 2.1037E-07 -2.1293E-11 298 1200 128 C9H1202 CUMENE HYDROPEROXIDE -42.988 9.9727E-01 -9.1932E-04 4.9051E-07 -1.1852E-10 298 1200 129 C9H140 ISOPHORONE -74.479 1.1286E+00 -1.0642E-03 5.8129E-07 -1.4417E-10 298 1200 130 C9H1406 GLYCERYL TRIACETATE -94.112 1.5807E+00 -1.7308E-03 9.5867E-07 -2.0165E-10 298 1200 131 C9H1604 AZELAIC ACID -10.832 1.1553E+00 -1.1558E-03 7.2207E-07 -2.0666E-10 298 1200 132 C9H18 ISOPROPYLCYCLOHEXANE -72.808 1.0165E+00 -6.2550E-04 1.7248E-07 -1.4751E-11 298 1500 133 C9H18 1-NONENE 55.655 4.9879E-01 1.0927E-04 -3.1474E-07 1.0691E-10 200 1500 1500 134 C9H18 n-PROPYLCYCLOHEXANE 25.567 5.2828E-01 2.3719E-04 -4.6758E-07 1.5413E-10 200 1500		COU12	1 2 3-TDIMETUVI DENZENE	10.955	0.4349E-U1	-2./029E-04	-1.4451E-U8	2.01431-11	200 1500
126 C9H120 BENZYL ETHYL ETHER		COH12	1,2,3-IKIMEINILBENZENE 1 2 /-TDIMETHVIRENZENE	7 279	5.5002E-U1	-1.7U00E-U4	-4.JZOVE-U8	2.7700E-11 3 /377E-11	200 1200
127 C9H120 2-PHENYL-2-PROPANOL -42.729 8.6797E-01 -6.3040E-04 2.1037E-07 -2.1293E-11 298 1200 128 C9H1202 CUMENE HYDROPEROXIDE -42.988 9.9727E-01 -9.1932E-04 4.9051E-07 -1.1852E-10 298 1200 129 C9H140 ISOPHORONE -74.479 1.1286E+00 -1.0642E-03 5.8129E-07 -1.4417E-10 298 1200 130 C9H1406 GLYCERYL TRIACETATE -94.112 1.5807E+00 -1.7308E-03 9.5867E-07 -2.0165E-10 298 1200 131 C9H1604 AZELAIC ACID -10.832 1.1553E+00 -1.1558E-03 7.2207E-07 -2.0666E-10 298 1200 132 C9H18 ISOPROPYLCYCLOHEXANE -72.808 1.0165E+00 -6.2550E-04 1.7248E-07 -1.4751E-11 298 1500 133 C9H18 1-NONENE 55.655 4.9879E-01 1.0927E-04 -3.1474E-07 1.0691E-10 200 1500 134 C9H18 n-PROPYLCYCLOHEXANE 25.567 5.2828E-01 2.3719E-04 -4.6758E-07 1.5413E-10 200 1500		C9H12O	BENZYL FTHYL FTHER	-77 310	9.9168F-01	-8.2053F-N/	3.7784F-07	-7.6033F-11	298 1500
128 C9H1202 CUMENE HYDROPEROXIDE -42.988 9.9727E-01 -9.1932E-04 4.9051E-07 -1.1852E-10 298 1200 129 C9H140 ISOPHORONE -74.479 1.1286E+00 -1.0642E-03 5.8129E-07 -1.4417E-10 298 1200 130 C9H1406 GLYCERYL TRIACETATE -94.112 1.5807E+00 -1.7308E-03 9.5867E-07 -2.0165E-10 298 1200 131 C9H1604 AZELAIC ACID -10.832 1.1553E+00 -1.1558E-03 7.2207E-07 -2.0666E-10 298 1200 132 C9H18 ISOPROPYLCYCLOHEXANE -72.808 1.0165E+00 -6.2550E-04 1.7248E-07 -1.4751E-11 298 1500 134 C9H18 n-PROPYLCYCLOHEXANE 55.655 4.9879E-01 1.0927E-04 -3.1474E-07 1.0691E-10 200 1500 134 C9H18 n-PROPYLCYCLOHEXANE 25.567 5.2828E-01 2.3719E-04 -4.6758E-07 1.5413E-10 200 1500		C9H12O	2-PHENYL-2-PROPANOL	-42.729	8.6797F-01	-6.3040F-04	2.1037F-07	-2.1293E-11	298 1200
129 C9H140 ISOPHORONE -74.479 1.1286E+00 -1.0642E-03 5.8129E-07 -1.4417E-10 298 1200 130 C9H1406 GLYCERYL TRIACETATE -94.112 1.5807E+00 -1.7308E-03 9.5867E-07 -2.0165E-10 298 1200 131 C9H1604 AZELAIC ACID -10.832 1.1553E+00 -1.1558E-03 7.2207E-07 -2.0666E-10 298 1200 132 C9H18 I SOPROPYLCYCLOHEXANE -72.808 1.0165E+00 -6.2550E-04 1.7248E-07 -1.4751E-11 298 1500 134 C9H18 1-NONENE 55.655 4.9879E-01 1.0927E-04 -3.1474E-07 1.0691E-10 200 1500 134 C9H18 n-PROPYLCYCLOHEXANE 25.567 5.2828E-01 2.3719E-04 -4.6758E-07 1.5413E-10 200 1500		C9H12O2	CUMENE HYDROPEROXIDE	-42.988	9.9727E-01	-9.1932E-04	4.9051E-07	-1.1852E-10	298 1200
130 C9H1406 GLYCERYL TRIACETATE -94.112 1.5807E+00 -1.7308E-03 9.5867E-07 -2.0165E-10 298 1200 131 C9H1604 AZELAIC ACID -10.832 1.1553E+00 -1.1558E-03 7.2207E-07 -2.0666E-10 298 1200 132 C9H18 I SOPROPYLCYCLOHEXANE -72.808 1.0165E+00 -6.2550E-04 1.7248E-07 -1.4751E-11 298 1500 133 C9H18 1-NONENE 55.655 4.9879E-01 1.0927E-04 -3.1474E-07 1.0691E-10 200 1500 134 C9H18 n-PROPYLCYCLOHEXANE 25.567 5.2828E-01 2.3719E-04 -4.6758E-07 1.5413E-10 200 1500		C9H140	ISOPHORONE	-74.479	1.1286E+00	-1.0642E-03	5.8129E-07	-1.4417E-10	298 1200
131 C9H1604 AZELAIC ACID -10.832 1.1553E+00 -1.1558E-03 7.2207E-07 -2.0666E-10 298 1200 132 C9H18 ISOPROPYLCYCLOHEXANE -72.808 1.0165E+00 -6.2550E-04 1.724BE-07 -1.4751E-11 298 1500 133 C9H18 1-NONENE 55.655 4.9879E-01 1.0927E-04 -3.1474E-07 1.0691E-10 200 1500 134 C9H18 n-PROPYLCYCLOHEXANE 25.567 5.2828E-01 2.3719E-04 -4.6758E-07 1.5413E-10 200 1500		C9H14O6	GLYCERYL TRIACETATE	-94.112	1.5807E+00	-1.7308E-03	9.5867E-07	-2.0165E-10	298 1200
132 C9H18 ISOPROPYLCYCLOHEXANE -72.808 1.0165E+00 -6.2550E-04 1.7248E-07 -1.4751E-11 298 1500 133 C9H18 1-NONENE 55.655 4.9879E-01 1.0927E-04 -3.1474E-07 1.0691E-10 200 1500 134 C9H18 n-PROPYLCYCLOHEXANE 25.567 5.2828E-01 2.3719E-04 -4.6758E-07 1.5413E-10 200 1500		C9H16O4	AZELAIC ACID	-10.832	1.1553E+00	-1.1558E-03	7.2207E-07	-2.0666E-10	298 1200
134 C9H18 n-PROPYLCYCLOHEXANE 25.567 5.2828E-01 2.3719E-04 -4.6758E-07 1.5413E-10 200 1500		C9H18	ISOPROPYLCYCLOHEXANE	-72.808	1.0165E+00	-6.2550E-04	1.7248E-07	-1.4751E-11	298 1500
134 C7010 11-PRUPTLUTULUTEARNE 20.001 0.2020E-U1 2.3/19E-U4 -4.0/08E-U/ 1.0415E-10 200 1000		COU19	I-NUNENE	25.655	4.98/9E-01	1.092/E-04	-5.14/4E-07	1.0691E-10	200 1500
	154		TI FROFILGICLONEXANE	106,65	J.2020E-UI	176-04	-4.01J0E-U1	11-36146.1	200 1300

NO	FORMULA	DIISOBUTYL KETONE 1-NONANAL n-BUTYL VALERATE n-NONANOIC ACID n-OCTYL FORMATE 3,3-DIETHYLPENTANE 2,2-DIMETHYL-3-ETHYLPENTANE 2,4-DIMETHYL-3-ETHYLPENTANE 2,6-DIMETHYLHEPTANE 2,6-DIMETHYLHEPTANE 2-METHYLOCTANE 3-METHYLOCTANE 3-METHYLOCTANE 3-METHYLOCTANE 4-METHYLOCTANE 2,2,3,4-TETRAMETHYLPENTANE 2,2,3,4-TETRAMETHYLPENTANE 2,2,4,4-TETRAMETHYLPENTANE 2,2,4-TETRAMETHYLPENTANE 2,2,5-TRIMETHYLHEXANE 2,6-DIMETHYL-4-HEPTANOL 1-NONANOL 1-NONANOL 1-NONYL MERCAPTAN 1-NONYL MERCAPTAN 1-NONYL MINE PYROMELLITIC ACID 1-BROMONAPHTHALENE 1-CHLORONAPHTHALENE 1-CHLORONAPHTHALENE 1-METHYLINDENE 2-METHYLINDENE DIMETHYL TEREPHTHALATE DIMETHYL TEREPHTHALATE DIMETHYL TEREPHTHALATE DICYCLOPENTADIENE 1,2,3,4-TETRAHYDRONAPHTHALENE ANETHOLE DIALLYL MALEATE 1,2,3,4-TETRAHYDRONAPHTHALENE ANETHOLE DIALLYL MALEATE 1-BUTYLBENZENE 5-CHUTYLBENZENE 5-CYMENE 0-CYMENE 0-CYMENE 0-DIETHYLBENZENE 0-DIETHYLBENZENE 0-DIETHYLBENZENE 0-DIETHYLBENZENE 2-ETHYLN-XYLENE 3-ETHYL-O-XYLENE 4-ETHYL-O-XYLENE 4-ETHYL-O-XYLENE	Α	В	С	D	E	TMIN TMAX
135	C9H18O	DIISOBUTYL KETONE	-1.433	8.8406E-01	-5.7459E-04	1.9432E-07	-2.8451E-11	298 1500
136	C9H18O	1-NONANAL	84.758	3.9995E-01	3.6567E-04	-5.3736E-07	1.6751E-10	200 1500
137	C9H18O2	N-BUTYL VALERATE	-43.663	1.1626E+00	-1.0255E-03	5.0332E-07	-1.040/E-10	298 1500
138	C9H18O2	n-NONANDIC ACID	16.182	8.4306E-01	-4.3510E-04	6.1835E-08	7.4964E-12	298 1200
139	C9H18U2	N-UCITE FURMATE	77 707	1.12425+00	-9.40 18E-U4	4.42006-07	-8.0/08E-11	298 1500 150 1500
140	COURC	3,3-VIEINILPENIANE	3/./93	6.3013E-U1	7 70/75-05	-1.3/3/E-U/	1 07055-10	150 1500
1/1	COURC	2,2-DIMETHIL-3-ETHILPENTANE	4 452	7 42705-01	3.7947E-03	-2.912/E-U/	/ 7011E-11	150 1500
1/7	CONSO	2,4-DIMETHYLUEDTANE	/3 712	5 71855-01	1 20705-04	-7.9304E-00	1 26075-10	150 1500
144	CONSU	2 K-DIMETHYL HEDTANE	15 557	7 2025E-01	-1 4814F-04	-1 6638F-07	7 3518F-11	150 1500
145	C9H20	3-FTHYLHEPTANE	68.581	4.4754E-01	3.1908E-04	-5.1182E-07	1.6482E-10	150 1500
146	C9H2O	2-METHYLOCTANE	51.299	5.3562E-01	1.6961E-04	-4.0233E-07	1.3567E-10	150 1500
147	C9H2O	3-METHYLOCTANE	43.182	5.7408E-01	1.0042E-04	-3.4988E-07	1.2161E-10	150 1500
148	C9H2O	4-METHYLOCTANE	37.821	6.1030E-01	3.4470E-05	-3.0208E-07	1.0936E-10	150 1500
149	C9H20	n-NONANE	29.687	6.6821E-01	-9.6492E-05	-2.0014E-07	8.2200E-11	200 1500
150	C9H20	2,2,3,3-TETRAMETHYLPENTANE	-56.144	1.1449E+00	-9.5333E-04	4.9493E-07	-1.1283E-10	200 1500
151	C9H2O	2,2,3,4-TETRAMETHYLPENTANE	-6.361	8.2329E-01	-3.2768E-04	-3.3527E-09	2.4144E-11	150 1500
152	C9H2O	2,2,4,4-TETRAMETHYLPENTANE	45.985	5.7438E-01	1.1062E-04	-3.1707E-07	1.0496E-10	150 1500
153	C9H2O	2,2,5-TRIMETHYLHEXANE	18.986	6.8130E-01	-5.8717E-05	-2.2116E-07	8.5439E-11	150 1500
154	C9H2OO	2,6-DIMETHYL-4-HEPTANOL	-26.633	1.0358E+00	-7.3051E-04	2.6868E-07	-4.120/E-11	298 1500
155	C9H2UU	1-NONANOL	15.919	8.1238E-01	-3.1365E-U4	-6.453/E-08	5.1036E-11	200 1500
150	C9H2UU	Z-NUNANUL	-13.8//	9.8909E-01	1 /375F-0/	2.115UE-U/	1 20575 10	298 1200
157	C9H2US	N-NONTL MEKCAPIAN	-12 015	0.00535-01	-4 921/E-0/	2 54475-07	-/ 1000E-11	200 1500
150	COUDIN	TOTODODY AMINE	-16.913	1 1357E+00	-8 /707E-04	3 3070F-07	-5 7551E-11	208 1500
160	C10HAOR	DADUMEITTIC VCID	-67 161	9 7245F-01	-6 8626F-04	1 9256F-07	-6 0900E-13	298 1500
161	C10H7Br	1-RROMONAPHTHALENE	-46-005	8.5830E-01	-7.4681E-04	3.2926E-07	-5-8743E-11	298 1500
162	C10H7Cl	1-CHLORONAPHTHALENE	-57.895	9.1225E-01	-8.3435E-04	3.8928E-07	-7.3276E-11	298 1500
163	C10H8	NAPHTHALENE	67.099	4.3239E-02	9.1740E-04	-1.0019E-06	3.0896E-10	50 1500
164	C10H9N	QUINALDINE	-65.789	9.5661E-01	-8.0989E-04	3.4702E-07	-6.0324E-11	298 1500
165	C10H10	m-DIVINYLBENZENE	-35.543	8.5580E-01	-7.3218E-04	3.3133E-07	-6.2061E-11	298 1500
166	C10H10	1-METHYLINDENE	-48.066	9.3476E-01	-8.3220E-04	3.8682E-07	-7.4167E-11	298 1500
167	C10H10	2-METHYLINDENE	-49.008	9.3164E-01	-8.2626E-04	3.8402E-07	-7.3411E-11	298 1500
168	C10H10O4	DIMETHYL PHTHALATE	-60.400	9.3881E-01	-5.4837E-04	6.5470E-09	7.7122E-11	298 1200
169	C10H1004	DIMETHYL TEREPHTHALATE	-132.654	1.3389E+00	-1.2518E-03	4.2932E-07	2.8171E-11	298 1000
170	C10H12	DICYCLOPENTADIENE	-147.089	1.36//E+00	-1.3862E-03	7.1581E-07	-1.4513E-10	298 1500
171	C10H12	1,2,3,4-TETRAHYDRUNAPHTHALENE	-51.694	8.3545E-UI	7 2575C 0/	1.1368E-07	-0.//U3E-13	200 1500
172	C10H12U	ANEIHULE DIALLYI MALEATE	-43.965 -47.070	9.3023E-01	-1.2000E-04	2.904ZE-U/ 9.9301E-07	-3.U203E-11	290 1500
173	C10H12U4	DIALLIL MALEAIE	26 627	5 3108F-01	3 7058F-05	-2 7054F-07	1 0200E-10	200 1500
175	C10H14	Sec-RUTYI RENZENE	104.794	1.1063E-01	8.1144F-04	-8-6635F-07	2.5831F-10	200 1500
176	C10H14	tert-BUTYL BENZENE	-53.936	9.6706E-01	-7.1192E-04	2.5338E-07	-3.4001E-11	275 1500
177	C10H14	m-CYMENE	31.855	4.9392E-01	1.1261E-04	-3.3794E-07	1.1778E-10	200 1500
178	C10H14	o-CYMENE	-38.033	8.6610E-01	-5.5561E-04	1.6108E-07	-1.4651E-11	298 1500
179	C10H14	p-CYMENE	36.759	4.6194E-01	1.6776E-04	-3.7638E-07	1.2734E-10	200 1500
180	C10H14	m-DIETHYLBENZENE	24.047	5.5431E-01	-1.1581E-05	-2.4047E-07	9.0827E-11	200 1500
181	C10H14	o-DIETHYLBENZENE	34.267	5.3592E-01	-5.9210E-06	-2.3425E-07	8.7499E-11	200 1500
182	C10H14	p-DIETHYLBENZENE	28.958	5.2201E-01	4.4335E-05	-2.7933E-07	1.0033E-10	200 1500
183	C10H14	2-ETHYL-m-XYLENE	-32.782	9.0529E-01	-6.7917E-04	2.6936E-07	-4.5691E-11	298 1500
184	C10H14	2-ETHYL-p-XYLENE	-32.097	8.7204E-01	-6.1913E-04	2.2900E-07	-3.5/21E-11	298 1500
182	C10H14	3-ETHYL-o-XYLENE	72.007	9.380/E-01	-7.5782E-04	3.4013E-07	7 57015 11	298 1200
100	C10H14 C10H14	4-ETHYL-m-XYLENE	-32.097	9.7204E-01	-6.1913E-04 -6.1913E-04	2.29006-07	-3.3/2 E-	298 1500 298 1500
188	C10H14	4-ETHYL-o-XYLENE 5-ETHYL-m-XYLENE	-24 187	7 0716F-01	-4.8265E-04	1 3407F-07	-1 2432F-11	298 1500
	C10H14				-8.7778E-04			
	C10H14	1,2,3,5-TETRAMETHYLBENZENE	55.191		2.2251E-04			
	C10H14	1,2,4,5-TETRAMETHYLBENZENE	29.751		-1.1573E-04			
	C10H140	p-tert-BUTYLPHENOL			-1.0219E-03			
	C10H1402	p-tert-BUTYLCATECHOL	-66.567		-1.1749E-03			
	-40.45.4	N,N-DIETYHLANILINE	-103.246	1.2315E+00	-1.0695E-03	4.8560E-07	-9.0354E-11	298 1500
195	C10H15N	2,6-DIETHYLANILINE	-45.098	1.0631E+00	-8.9633E-04	4.0581E-07	-7.6550E-11	298 1500
	C10H16	N,N-DIEITHLANILINE 2,6-DIETHYLANILINE CAMPHENE D-LIMONENE alpha-PHELLANDRENE beta-PHELLANDRENE alpha-PINENE beta-PINENE alpha-TERPINENE gamma-TERPINENE TERPINOLENE CAMPHOR cis-DECAHYDRONANPHTALENE	-154.624	1.3370E+00	-1.0808E-03	4.5075E-07	-7.7569E-11	298 1500
	C10H16	D-LIMONENE	-75.119	1.1283E+00	-9.4007E-04	4.2286E-07	-7.9691E-11	298 1500
	C10H16	alpha-PHELLANDRENE	-99.641	1.2604E+00	-1.1540E-03	5.6750E-07	-1.1500E-10	298 1500
	C10H16	beta-PHELLANDRENE	-102.519	1.2851E+00	-1.1913E-03	5.8754E-07	-1.1834E-10	298 1500
	C10H16	alpna-PINENE	-200.422	1.4854E+00	-1.2092E-03	J.4404E-U/	-9.4U/TE-11	290 1500
	C10H16	DELGTEINENE	- 14U.010 - 40 040	1 12905+00	-1.UZYYE-U3	5 0160E-07	-0.J261E-11	270 1300
	C10H16 C10H16	alpha TERPINENE	-71 39/	1 22665+00	-1 1733F-N3	6 0467E-07	-1 27385-10	298 1500
	C10H16	TERPINOI FNE	-59.866	1.0552F+00	-8.3267F-04	3.5840F-07	-6-6028F-11	298 1500
	C10H160	CAMPHOR	-145.746	1.3060F+00	-9.5043F-04	3.2082F-07	-3.9497F-11	298 1500
	C10H18	CIS-DECAHYDRONANPHTALENE	-22.786	6.4589F-01	1.8319E-04	-4.7868E-07	1.6380E-10	200 1500

NO	FORMULA	NAME	Α	.8	С	D	E	TMIN TMAX
		trans-DECAHYDRONAPHTHALENE SEBACIC ACID n-BUTYLCYCLOHEXANE 1-DECENE 1-DECANAL n-DECANOIC ACID 2-ETHYLHEXYL ACETATE ISOPENTYL ISOVALERATE n-DECANE 2,2-DIMETHYLOCTANE 2-METHYLNONANE 3-METHYLNONANE 4-METHYLNONANE 5-METHYLNONANE 1-DECANOL DI-n-PENTYL ETHER ISODECANOL TETRAETHYLENE GLYCOL DIMETHYL ETHER n-DECYL MERCAPTAN					E	
207	C10H18	trans-DECAHYDRONAPHTHALENE	1.778	4.8130E-01	5.2802E-04	-7.6032E-07	2.4097E-10	150 1500
208	C10H18O4	SEBACIC ACID	12.334	1.0779E+00	-7.8296E-04	2.9696E-07	-4.8452E-11	298 1500
	C10H20	n-BUTYLCYCLOHEXANE	90.421	2.3264E-01	9.4595E-04	-1.0571E-06	3.1928E-10	150 1500
210	C10H20	1-DECENE	121,553	2.0974E-01	7.8760E-04	-8.6982E-07	2.6033E-10	150 1500
	C10H200	1-DECANAL	210.932	-1.8370E-01	1.5621E-03	-1.4857E-06	4.2973E-10	150 1500
	C10H20O2	n-DECANOIC ACID	16.364	9.3012E-01	-4.7163E-04	5.8799E-08	1.1477E-11	298 1200
	C10H20O2	2-ETHYLHEXYL ACETATE	-18-921	1.1337E+00	-8.6008E-04	3.5303E-07	-6.1420E-11	298 1500
	C10H20O2	ISOPENTYL ISOVALERATE	-49.541	1.2738F+00	-1.0883F-03	5-0965F-07	-9-9751F-11	298 1500
	C10H22	n-DECANE	31.780	7-4489F-01	-1-0945F-04	-2-2668F-07	9.3458F-11	200 1500
	C10H22	2.2-DIMETHYLOCTANE	50.808	6-2243F-01	1.6032F-04	-4-2638F-07	1.4566E-10	150 1500
	C10H22	2-METHYL NONANE	57.338	5.8226F-01	2.2492F-04	-4.8905F-07	1.6519F-10	150 1500
	C10H22	3-METHYL NONANE	49 113	6 2101F-01	1 5367F-04	-4 3414F-07	1 5034F-10	150 1500
	C10H22	4-METHYL NONANE	43.716	6.5491F-01	9 6751F-05	-3 9509F-07	1.4060F-10	150 1500
	C10H22	5-METHYL NONANE	46 011	6 3913F-01	1 2507E-04	-4 1575E-07	1 4602E-10	150 1500
	C10H22O	1-DECANOL	15.733	8.9157F-01	-3.3219F-04	-8.6679E-08	6.1276F-11	200 1500
	C10H22O	DI-n-PENTYL FTHER	-17 080	1 0765E+00	-7 2109F-04	2 5716F-07	-3 9483F-11	298 1500
	C10H22O	ISODECANOL	-34 228	1 1729F+00	-8 9588F-04	3 7908F-07	-6 8013F-11	298 1500
	C10H22O5	TETRAETHYLENE GLYCOL DIMETHYL ETHER	-62 043	1 4737E+00	-1 2136F-03	5.776E-07	-9 7123F-11	298 1500
	C10H22S	n-DECYL MERCAPTAN	70 441	6 2088F-01	1 4660F-04	-4 2347E-07	1 4450F-10	200 1500
	C10H23N	n-DECYL AMINE	-0.341	1 0697F+00	-6 7080F-04	2 1031F-07	-2 0272F-11	208 1500
	C11H10	1-METHYL NADHTHAL ENE	-8 325	6 5561E-01	-2 3148E-04	-8 6605E-08	5 3577E-11	200 1500
	C11H10	2-METHYL MADHTHAL ENE	-0.323	6 185/E-01	-1 80055-04	-1 1/5/E-07	5 0208E-11	200 1500
	C11H14O2	n-DUTYI DENZOATE	-9/ 797	1 17805±00	-0.701/5-04	/ 2833E-07	-7 6038E-11	208 1500
	C11H16	D-DENTYL DENZEME	-/-/03	7 70705-01	-2 70705-04	-7 E7/0E-09	F 424FF-44	200 1500
	C11H160	D-+ont-AMVI DUENOI	-4.404	1.79706-01	1 00015-04	/ 04075-07	-0 722/5-11	200 1500
	C11H100	2 FTUVILLENVI ACRVIATE	11.4/3	1.23 IOETUU	1 250/5 07	4.900/6-0/	1 20745 10	290 1300
	C11H20O2	4 LUDGGENE	172 (12	1.3/33E+00	-1.25U0E-U3	0.20001-07	-1.293 IE-10	290 1500
	C11H22	1-UNDECENE	132.612	2.4011E-01	8.5062E-04	-9.454UE-U/	2.8339E-10	150 1500
	C11H22O	I-UNDECANAL	2.102	1.05/8E+00	-6./455E-U4	2.228/E-U/	-3.1192E-11	298 1500
	C11H24	n-UNDECANE	125.212	3.1401E-01	7.9137E-04	-9.1410E-07	2.7568E-10	150 1500
	C11H24O	1-UNDECANOL	16.702	9.7755E-01	-3.6662E-U4	-9.5146E-08	6.7752E-11	200 1500
	C11H24S	UNDECYL MERCAPIAN	74.322	6.9/12E-01	1.5160E-04	-4.6448E-U/	1.6008E-10	200 1500
	C12H80	DIBENZOFURAN	-14.004	5.8793E-01	9.7079E-05	-4.4225E-07	1.6599E-10	100 1500
	C12H9N	DIBENZOPYRROLE	-117.362	1.3214E+00	-1.3019E-03	6.4403E-07	-1.2737E-10	298 1500
	C12H10	ACENAPHTHENE	-61.063	9.6388E-01	-7.2100E-04	2.6234E-07	-3.6857E-11	200 1500
	C12H10	BIPHENYL	-29.153	7.6716E-01	-3.4341E-04	-3.7724E-08	4.6179E-11	200 1500
	C12H100	DIPHENYL ETHER	-118.442	1.2856E+00	-1.2190E-03	5.9127E-07	-1.1547E-10	298 1500
	C12H11N	p-AMINODIPHENYL	-95.528	1.2611E+00	-1.1955E-03	5.8242E-07	-1.1477E-10	298 1500
	C12H11N	DIPHENYLAMINE	-119.401	1.3060E+00	-1.2200E-03	5.8764E-07	-1.1447E-10	298 1500
245	C12H11N3	p-AMINOAZOBENZENE	-160.867	1.7547E+00	-1.9301E-03	1.0499E-06	-2.2321E-10	298 1500
246	C12H11N3	1,3-DIPHENYLTRIAZENE	-190.085	1.8079E+00	-1.9564E-03	1.0452E-06	-2.1809E-10	298 1500
247	C12H12	2,6-DIMETHYLNAPHTHALENE	-49.867	1.0029E+00	-7.9843E-04	3.3597E-07	-5.8987E-11	298 1500
248	C12H12	2,7-DIMETHYLNAPHTHALENE	-49.867	1.0029E+00	-7.9843E-04	3.3597E-07	-5.8987E-11	298 1500
249	C12H12	1-ETHYLNAPHTHALENE	-77.162	1.1312E+00	-9.8675E-04	4.5204E-07	-8.5024E-11	298 1500
250	C12H12N2	p-AMINODIPHENYLAMINE	-109.455	1.3879E+00	-1.3126E-03	6.3299E-07	-1.2318E-10	298 1500
251	C12H12N2	HYDRAZOBENZENE	-116.092	1.3797E+00	-1.3149E-03	6.4282E-07	-1.2675E-10	298 1500
252	C12H14	1.2.3-TRIMETHYLINDENE	-37.324	1.0980E+00	-9.2975E-04	4.1878E-07	-7.8898E-11	298 1500
	C12H14O4	DIETHYL PHTHALATE	-122.210	1.4777E+00	-1.3850E-03	6.7906E-07	-1.3210E-10	298 1500
	C12H16	CYCLOHEXYLBENZENE	-94.764	1.1349E+00	-6.8154E-04	1.4688E-07	2.5822E-12	298 1400
	C12H18	m-DIISOPROPYLBENZENE	-70.177	1.2283E+00	-9.8495F-04	4.2208E-07	-7.6005E-11	298 1500
	C12H18	D-DIISOPROPYLBENZENE	-70.177	1.2283E+00	-9.8495F-04	4.2208F-07	-7.6005E-11	298 1500
	C12H18	n-HEXYI RENZENE	39 655	6 4328F-01	6 6681F-05	-3 5564F-07	1 2779F-10	200 1500
	C12H20O4	DIRITYI MALEATE	68 470	0 1306F-01	-4 0061E-04	1 5325F-08	2 1770F-11	208 1500
	C12H22	BICACIUNEAAI	-122 6/0	1 3647E+00	-7 0066E-04	1.3323E 00	-5 1010F-12	208 1500
	C12H23N	DICYCLOHEXYL AMINE	-128 032	1.50476.00	-8 6103E-0/	1.03176 07	3 6007E-13	208 1500
	C12H24	1-00050515	97 102	4 27/1E-01	2 21745-04	-/: 7038E-07	1 58005-10	200 1500
	C12H240	1-DODECANAL	63.102	1 12005+00	-4 7200E-04	1 95/35-07	-1 75925-11	200 1500
	C12H2402	D-DODECANOIC ACID	-/ 205	1.12905+00	-8 22005-04	2 74805-07	-1.7JOZE-11	208 1500
	C12H24U2	D DODECANE	71 /09	7 25505-01	1 15575-04	2.700UE-U7	1 /1/15-10	200 1500
	C12H26 C12H260	DI-D-HEYVI FTUED	11.470	1 25875+00	-8 1053E-04	2 6//85-07	-3 5/50C-11	208 1500
	C12H200	1-DODECANOL	17.045	1.23076+00	-7.02//5-04	1 11/25-07	7 47005-11	200 1500
	C12H260	DISTURNISHE OF VOOL DIEM. BUTTY STUDO	1/.YOD	1.00025700	-J.7244E*U4	- 1.1146E*U/	7.030UE*11	200 1200
201	C12H26O3	DI-n-PENTYL ETHER ISODECANOL TETRAETHYLENE GLYCOL DIMETHYL ETHER n-DECYL MERCAPTAN n-DECYLAMINE 1-METHYLNAPHTHALENE 2-METHYLNAPHTHALENE 1-BUTYL BENZOATE n-PENTYLBENZENE p-tert-AMYLPHENOL 2-ETHYLHEXYL ACRYLATE 1-UNDECANE 1-UNDECANAL n-UNDECANAL n-UNDECANAL n-UNDECYL MERCAPTAN DIBENZOFURAN DIBENZOFURAN DIBENZOFURAN DIBENZOFURAN DIBENZOFURAN DIPHENYL ETHER p-AMINODIPHENYL DIPHENYL ETHER p-AMINOAZOBENZENE 1,3-DIPHENYLTRIAZENE 2,6-DIMETHYLNAPHTHALENE 1-ETHYLNAPHTHALENE 1-ETHYLNAPHTHALENE 1-ETHYLNAPHTHALENE 1-Z,3-TRIMETHYLINDENE DIETHYL PHTHALATE CYCLOHEXYLBENZENE m-DIISOPROPYLBENZENE p-DIISOPROPYLBENZENE p-DIISOPROPYLBENZENE n-HEXYLBENZENE DIBUTYL MALEATE BICYCLOHEXYL DICYCLOHEXYLAMINE 1-DODECANAL n-DODECANAL n-DODECANAL n-DODECANOL DIETHYLENE GLYCOL DI-n-BUTYL ETHER n-DODECYLAMINE DODECYLAMINE	-47.43/ -15 775	1.30026+00	-1.1343E-U3	4.0000t-U/	-0.7144E-17	200 1200
200	C12H2O5	TOT DUTYL DODATE	- 12.335	1.29092+00	-y.1200E-U4	3.030AF-01	-0.430/E-11	270 1300
269	C12H2/B03	IKI-U-ROLLE ROKATE	40 444	4 70/0-:0-	0.0404= 01	7 7/00- 0-	F F(0/= 41	200 4500
270	C12H2/N	DODECYLAMINE	-18.410	1.5048E+00	-8.9181E-04	5.5488E-07	-5.5494E-11	298 1500
271	C12H2/N	IKI-N-BUTYLAMINE	-52.703	1.4429E+00	-1.0614E-03	4.2083E-07	-/.1662E-11	298 1500
272	C13H10	FLUORENE	-74.758	1.0187E+00	-7.1721E-04	2.2140E-07	-2.0280E-11	200 1500
273	C13H100	BENZOPHENONE	-75.275	1.0612E+00	-7.8307E-04	2.7117E-07	-3.4873E-11	298 1500
274	C13H12	DIPHENYLMETHANE	-100.298	1.2250E+00	-1.0670E-03	4.8040E-07	-8.7845E-11	298 1600
275	C13H20	n-HEPTYLBENZENE	45.886	7.0113E-01	7.7233E-05	-3.9047E-07	1.3976E-10	200 1500
276	C13H26	1-TRIDECENE	88.663	6.8861E-01	2.2611E-04	-5.0981E-07	1.6963E-10	200 1500
277	C13H260	DIETHYLENE GLYCOL DI-n-BUTYL ETHER n-DODECYL MERCAPTAN TRI-n-BUTYL BORATE DODECYLAMINE TRI-n-BUTYLAMINE FLUORENE BENZOPHENONE DIPHENYLMETHANE n-HEPTYLBENZENE 1-TRIDECENE 1-TRIDECANAL n-BUTYL NONANOATE	-1.839	1.2551E+00	-7.8737E-04	2.4389E-07	-2.9663E-11	298 1500
278	C13H26O2	n-BUTYL NONANOATE	-58.657	1.6081E+00	-1.3740E-03	6.5735E-07	-1.3319E-10	298 1500

A									,
331 C18H16N2 N,N'-DIPHENYL-P-PHENYLENEDIAMINE -188.536 2.0474E+00 -1.9559E-03 9.5063E-07 -1.8600E-10 298 1500	NO	FORMULA	NAME	Α	В	С	D	Ε	TMIN TMAX
331 C18H16N2 N,N'-DIPHENYL-P-PHENYLENEDIAMINE -188.536 2.0474E+00 -1.9559E-03 9.5063E-07 -1.8600E-10 298 1500			•••••						
331 C18H16N2 N,N'-DIPHENYL-P-PHENYLENEDIAMINE -188.536 2.0474E+00 -1.9559E-03 9.5063E-07 -1.8600E-10 298 1500	279	C13H26O2	METHYL DODECANOATE	-28.448	1.4656E+00	-1.1419E-03	4.9828E-07	-9.3415E-11	298 1500
331 C18H16N2 N,N'-DIPHENYL-P-PHENYLENEDIAMINE -188.536 2.0474E+00 -1.9559E-03 9.5063E-07 -1.8600E-10 298 1500	280	C13H28	n-TRIDECANE	110.400	5.3321E-01	7.3984E-04	-1.0212E-06	3.2423E-10	150 1500
331 C18H16N2 N,N'-DIPHENYL-P-PHENYLENEDIAMINE -188.536 2.0474E+00 -1.9559E-03 9.5063E-07 -1.8600E-10 298 1500	201	C1/USO2	1-IKIDELANUL	17.127	1.14326+00	-4.23 IYE-U4	0.21005-07	-7 0E04E-11	200 1200
331 C18H16N2 N,N'-DIPHENYL-P-PHENYLENEDIAMINE -188.536 2.0474E+00 -1.9559E-03 9.5063E-07 -1.8600E-10 298 1500	202	C14H0UZ	ANTHDACENE	-68 180	1.20305+00	-8 1286E-0/	2 00135-07	-3.0396E-10	200 1500
331 C18H16N2 N,N'-DIPHENYL-P-PHENYLENEDIAMINE -188.536 2.0474E+00 -1.9559E-03 9.5063E-07 -1.8600E-10 298 1500	284	C14H10	DIDHENYI ACETYI ENE	-60.160	1.0700E+00	-8 1462F-04	2.9013E-07	-3 3005F-11	208 1500
331 C18H16N2 N,N'-DIPHENYL-P-PHENYLENEDIAMINE -188.536 2.0474E+00 -1.9559E-03 9.5063E-07 -1.8600E-10 298 1500	285	C14H10	PHENANTHRENE	-73.218	1.1192E+00	-8.9679E-04	3.5695E-07	-5.6466F-11	200 1500
331 C18H16N2 N,N'-DIPHENYL-P-PHENYLENEDIAMINE -188.536 2.0474E+00 -1.9559E-03 9.5063E-07 -1.8600E-10 298 1500	286	C14H12	cis-STILBENE	-96.782	1.2486E+00	-1.0880E-03	5.0166E-07	-9.5052E-11	298 1500
331 C18H16N2 N,N'-DIPHENYL-P-PHENYLENEDIAMINE -188.536 2.0474E+00 -1.9559E-03 9.5063E-07 -1.8600E-10 298 1500	287	C14H12	trans-STILBENE	-68.882	1.1174E+00	-8.3787E-04	3.0198E-07	-4.2209E-11	298 1500
331 C18H16N2 N,N'-DIPHENYL-P-PHENYLENEDIAMINE -188.536 2.0474E+00 -1.9559E-03 9.5063E-07 -1.8600E-10 298 1500	288	C14H12O2	BENZYL BENZOATE	-137.070	1.4041E+00	-1.1419E-03	4.2281E-07	-4.5129E-11	298 1200
331 C18H16N2 N,N'-DIPHENYL-P-PHENYLENEDIAMINE -188.536 2.0474E+00 -1.9559E-03 9.5063E-07 -1.8600E-10 298 1500	289	C14H14	1,1-DIPHENYLETHANE	-101.538	1.3208E+00	-1.1248E-03	4.9731E-07	-8.9846E-11	298 1600
331 C18H16N2 N,N'-DIPHENYL-P-PHENYLENEDIAMINE -188.536 2.0474E+00 -1.9559E-03 9.5063E-07 -1.8600E-10 298 1500	290	C14H14	1,2-DIPHENYLETHANE	-101.104	1.3200E+00	-1.1240E-03	4.9709E-07	-8.9901E-11	298 1600
331 C18H16N2 N,N'-DIPHENYL-P-PHENYLENEDIAMINE -188.536 2.0474E+00 -1.9559E-03 9.5063E-07 -1.8600E-10 298 1500	291	C14H14O	DIBENZYL ETHER	-133.169	1.4371E+00	-1.2020E-03	5.1612E-07	-9.1168E-11	298 1500
331 C18H16N2 N,N'-DIPHENYL-P-PHENYLENEDIAMINE -188.536 2.0474E+00 -1.9559E-03 9.5063E-07 -1.8600E-10 298 1500	292	C14H16	1-n-BUITLNAPHIHALENE	/1.101 E1 E00	4.0054E-01	7.3214E-U4	-9.7479E-U7	3.1420E-10	200 1500
331 C18H16N2 N,N'-DIPHENYL-P-PHENYLENEDIAMINE -188.536 2.0474E+00 -1.9559E-03 9.5063E-07 -1.8600E-10 298 1500	293	C14H22	n-OCITEBENZENE	-00 071	1 676/5±00	1 /550E-03	4.2003E-07	-1 20885-10	200 1500
331 C18H16N2 N,N'-DIPHENYL-P-PHENYLENEDIAMINE -188.536 2.0474E+00 -1.9559E-03 9.5063E-07 -1.8600E-10 298 1500	295	C14H2R	1-TETRADECENE	167 903	3.1544F-01	1 0739E-03	-1 2004F-06	3.6046F-10	150 1500
331 C18H16N2 N,N'-DIPHENYL-P-PHENYLENEDIAMINE -188.536 2.0474E+00 -1.9559E-03 9.5063E-07 -1.8600E-10 298 1500	296	C14H28O2	n-TETRADECANOIC ACID	-47.091	1.5789F+00	-1.1521F-03	4.4718F-07	-7.3810F-11	298 1500
331 C18H16N2 N,N'-DIPHENYL-P-PHENYLENEDIAMINE -188.536 2.0474E+00 -1.9559E-03 9.5063E-07 -1.8600E-10 298 1500	297	C14H30	n-TETRADECANE	115.502	6.0882E-01	6.8043E-04	-9.7091E-07	3.0756E-10	150 1500
331 C18H16N2 N,N'-DIPHENYL-P-PHENYLENEDIAMINE -188.536 2.0474E+00 -1.9559E-03 9.5063E-07 -1.8600E-10 298 1500	298	C14H300	1-TETRADECANOL	20.531	1.2268E+00	-4.4901E-04	-1.3852E-07	9.2055E-11	200 1500
331 C18H16N2 N,N'-DIPHENYL-P-PHENYLENEDIAMINE -188.536 2.0474E+00 -1.9559E-03 9.5063E-07 -1.8600E-10 298 1500	299	C14H31N	TETRADECYLAMINE	-23.409	1.5091E+00	-1.0193E-03	3.6745E-07	-5.6794E-11	298 1500
331 C18H16N2 N,N'-DIPHENYL-P-PHENYLENEDIAMINE -188.536 2.0474E+00 -1.9559E-03 9.5063E-07 -1.8600E-10 298 1500	300	C15H10N2O2	DIPHENYLMETHANE-4,4'-DIISOCYANATE	-40.814	1.1664E+00	-8.2318E-04	2.6180E-07	-2.8364E-11	298 1500
331 C18H16N2 N,N'-DIPHENYL-P-PHENYLENEDIAMINE -188.536 2.0474E+00 -1.9559E-03 9.5063E-07 -1.8600E-10 298 1500	301	C15H160	p-CUMYLPHENOL	-105.972	1.5282E+00	-1.3205E-03	5.8321E-07	-1.0494E-10	298 1500
331 C18H16N2 N,N'-DIPHENYL-P-PHENYLENEDIAMINE -188.536 2.0474E+00 -1.9559E-03 9.5063E-07 -1.8600E-10 298 1500	302	C15H16O2	BISPHENOL A	-106.990	1.6818E+00	-1.6100E-03	7.9103E-07	-1.5526E-10	298 1600
331 C18H16N2 N,N'-DIPHENYL-P-PHENYLENEDIAMINE -188.536 2.0474E+00 -1.9559E-03 9.5063E-07 -1.8600E-10 298 1500	303	C15H24	n-NONYLBENZENE	0.378	1.1149E+00	-3.9485E-04	-1.2822E-07	8.2222E-11	200 1500
331 C18H16N2 N,N'-DIPHENYL-P-PHENYLENEDIAMINE -188.536 2.0474E+00 -1.9559E-03 9.5063E-07 -1.8600E-10 298 1500	304	C15H240	2,6-D1-tert-BUTYL-p-CRESUL	-85.106	1.6932E+00	-1.3931E-03	5.912/E-U/	-1.0339E-10	298 1500
331 C18H16N2 N,N'-DIPHENYL-P-PHENYLENEDIAMINE -188.536 2.0474E+00 -1.9559E-03 9.5063E-07 -1.8600E-10 298 1500	305	C15H24U	1-DENTADECENE	26 0/0	1 10/25+00	-1.1300E-03	4.4237E-U7	1 0/515-10	290 1500
331 C18H16N2 N,N'-DIPHENYL-P-PHENYLENEDIAMINE -188.536 2.0474E+00 -1.9559E-03 9.5063E-07 -1.8600E-10 298 1500	307	C15H3002	PENTADECENE PENTADECANOIC ACID	-12 682	1.1742E100	-1 0581F-03	3 7408F-07	-5 6203F-11	298 1500
331 C18H16N2 N,N'-DIPHENYL-P-PHENYLENEDIAMINE -188.536 2.0474E+00 -1.9559E-03 9.5063E-07 -1.8600E-10 298 1500	308	C15H32	n-PENTADECANE	124.647	6.2706F-01	8.3164F-04	-1.1689F-06	3.7326F-10	150 1500
331 C18H16N2 N,N'-DIPHENYL-P-PHENYLENEDIAMINE -188.536 2.0474E+00 -1.9559E-03 9.5063E-07 -1.8600E-10 298 1500	309	C16H10	FLUORANTHENE	-112.910	1.4495E+00	-1.3602E-03	6.4245E-07	-1.2194E-10	298 1500
331 C18H16N2 N,N'-DIPHENYL-P-PHENYLENEDIAMINE -188.536 2.0474E+00 -1.9559E-03 9.5063E-07 -1.8600E-10 298 1500	310	C16H10	PYRENE	27.191	5.8885E-01	2.4989E-04	-5.7314E-07	2.0114E-10	150 1500
331 C18H16N2 N,N'-DIPHENYL-P-PHENYLENEDIAMINE -188.536 2.0474E+00 -1.9559E-03 9.5063E-07 -1.8600E-10 298 1500	311	C16H12	1-PHENYLNAPHTHALENE	-114.610	1.4322E+00	-1.2669E-03	5.7235E-07	-1.0505E-10	298 1500
331 C18H16N2 N,N'-DIPHENYL-P-PHENYLENEDIAMINE -188.536 2.0474E+00 -1.9559E-03 9.5063E-07 -1.8600E-10 298 1500	312	C16H20	1-n-HEXYLNAPHTHALENE	-82.067	1.5218E+00	-1.2290E-03	5.2212E-07	-9.1550E-11	298 1500
331 C18H16N2 N,N'-DIPHENYL-P-PHENYLENEDIAMINE -188.536 2.0474E+00 -1.9559E-03 9.5063E-07 -1.8600E-10 298 1500	313	C16H22O4	DIBUTYL PHTHALATE	148.647	-3.1458E-01	4.5159E-03	-6.5996E-06	3.0370E-09	298 800
331 C18H16N2 N,N'-DIPHENYL-P-PHENYLENEDIAMINE -188.536 2.0474E+00 -1.9559E-03 9.5063E-07 -1.8600E-10 298 1500	314	C16H26	n-DECYLBENZENE	65.790	8.6789E-01	1.2244E-04	-5.0606E-07	1.7890E-10	200 1500
331 C18H16N2 N,N'-DIPHENYL-P-PHENYLENEDIAMINE -188.536 2.0474E+00 -1.9559E-03 9.5063E-07 -1.8600E-10 298 1500	313	C16H32	1-DECTECTCUMEXANE	107.247	4.00 8E-U	1.3480E-U3	-1.5340E-06	4.04/9E-10	200 1500
331 C18H16N2 N,N'-DIPHENYL-P-PHENYLENEDIAMINE -188.536 2.0474E+00 -1.9559E-03 9.5063E-07 -1.8600E-10 298 1500	310	C16H32O2	N-HEVADECANOIC ACID	-54 487	1 80%AE±00	-1 33885-03	5 3671E-07	-0 20286-11	200 1500
331 C18H16N2 N,N'-DIPHENYL-P-PHENYLENEDIAMINE -188.536 2.0474E+00 -1.9559E-03 9.5063E-07 -1.8600E-10 298 1500	318	C16H3202	n-HEYADECANOIC ACID	131 750	6 7397F-01	8 7770F-04	-1 2430F-06	3 0785F-10	150 1500
331 C18H16N2 N,N'-DIPHENYL-P-PHENYLENEDIAMINE -188.536 2.0474E+00 -1.9559E-03 9.5063E-07 -1.8600E-10 298 1500	319	C16H34O	DI-n-OCTYL ETHER	-33.322	1.7059E+00	-1.1626E-03	4.2114E-07	-6.4955E-11	298 1500
331 C18H16N2 N,N'-DIPHENYL-P-PHENYLENEDIAMINE -188.536 2.0474E+00 -1.9559E-03 9.5063E-07 -1.8600E-10 298 1500	320	C16H34O	1-HEXADECANOL	119.789	8.1674E-01	6.2364E-04	-1.0540E-06	3.4977E-10	150 1500
331 C18H16N2 N,N'-DIPHENYL-P-PHENYLENEDIAMINE -188.536 2.0474E+00 -1.9559E-03 9.5063E-07 -1.8600E-10 298 1500	321	C17H28	n-UNDECYLBENZENE	2.711	1.2830E+00	-4.5442E-04	-1.5326E-07	9.7372E-11	200 1500
331 C18H16N2 N,N'-DIPHENYL-P-PHENYLENEDIAMINE -188.536 2.0474E+00 -1.9559E-03 9.5063E-07 -1.8600E-10 298 1500	322	C17H34	1-HEPTADECENE	125.132	7.9164E-01	6.6154E-04	-1.0780E-06	3.5594E-10	150 1500
331 C18H16N2 N,N'-DIPHENYL-P-PHENYLENEDIAMINE -188.536 2.0474E+00 -1.9559E-03 9.5063E-07 -1.8600E-10 298 1500	323	C17H36	n-HEPTADECANE	111.903	9.5987E-01	2.7901E-04	-6.7520E-07	2.2545E-10	200 1500
331 C18H16N2 N,N'-DIPHENYL-P-PHENYLENEDIAMINE -188.536 2.0474E+00 -1.9559E-03 9.5063E-07 -1.8600E-10 298 1500	324	C17H360	1-HEPTADECANOL	127.444	8.7086E-01	6.4059E-04	-1.0987E-06	3.6628E-10	150 1500
331 C18H16N2 N,N'-DIPHENYL-P-PHENYLENEDIAMINE -188.536 2.0474E+00 -1.9559E-03 9.5063E-07 -1.8600E-10 298 1500	325	C18H12	CHRYSENE	-41.414	1.11/2E+00	-5.6061E-04	1.7203E-09	5.1921E-11	200 1500
331 C18H16N2 N,N'-DIPHENYL-P-PHENYLENEDIAMINE -188.536 2.0474E+00 -1.9559E-03 9.5063E-07 -1.8600E-10 298 1500	320	C18H14	M-TERPHENYL	159.334	1.81/35+00	1.7948E-U3	9.0423E-07	-1.7969E-10	298 1600
331 C18H16N2 N,N'-DIPHENYL-P-PHENYLENEDIAMINE -188.536 2.0474E+00 -1.9559E-03 9.5063E-07 -1.8600E-10 298 1500	321	C10014	O-IERPHENIL	-159.334	1.01/35+00	-1.7940E-U3	9.04236-07	-1.7909E-10	290 1000
331 C18H16N2 N,N'-DIPHENYL-P-PHENYLENEDIAMINE -188.536 2.0474E+00 -1.9559E-03 9.5063E-07 -1.8600E-10 298 1500	320	C18H15D	TRIDHENYI DHOSDHINE	-140 077	1.8173E+00	-1.7948E-03	8 3604E-07	-1.7909E-10	298 1500
331 C18H16N2 N,N'-DIPHENYL-P-PHENYLENEDIAMINE -188.536 2.0474E+00 -1.9559E-03 9.5063E-07 -1.8600E-10 298 1500	330	C18H1504P	TRIPHENYL PHOSPHATE						
772 C19U22 2 7-DIMETUVI -2 7-DIDUENVI DITANE -150 612 1 0947E+00 -1 7405E-07 9 1757E-07 -1 5/47E-10 209 1500				-188.536	2.0474E+00	-1.9559E-03	9.5063E-07	-1.8600E-10	298 1500
333 C18H22O2 DICUMYL PEROXIDE -76.744 1.6944E+00 -1.2744E-03 4.7912E-07 -7.3317E-11 298 1500 334 C18H33O2 LINOLEIC ACID -113.518 2.1932E+00 -1.9690E-03 9.5258E-07 -1.77989E-10 298 1500 335 C18H3402 OLEIC ACID -55.663 1.9919E+00 -1.5562E-03 6.7067E-07 -1.2336E-10 298 1500 337 C18H3404 DIBUTYL SEBACATE -64.966 2.2026E+00 -1.8844E-03 8.8961E-07 -1.7701E-10 298 1500 338 C18H3404 DIHEXYL ADIPATE -64.614 2.0235E+00 -1.8000E-03 8.8573E-07 -1.8193E-10 298 1500 339 C18H36 1-OCTADECANE 216.021 4.1046E-01 1.3808E-03 -1.5473E-06 4.6513E-10 150 1500 342 C18H380 DINONYL ETHER -39.993 1.9149E+00 -1.2953E-03 4.5896E-07 -6.9698E-11 298 1500 343 C18H380 1-OCTADECANE 124.715 9.8653E-01 3.4273E-04 -7.4838E-07 2.4804E-10 200 1500 343 C18H380 1-OCTADECANOL 129.533 9.2997E-01 6.6025E-04 -1.1313E-06 3.7237E-10 150 1500 344 C19H26 1-n-NONYLAPHTHALENE -76.861 1.7404E+00 -1.2853E-03 4.9048E-07 -7.7646E-11 298 1500 345 C19H360 METHYL OLEATE -44.058 2.0299E+00 -1.5136E-03 6.1226E-07 -7.0646E-11 298 1500 347 C19H38 1-NONADECANE 69.594 1.2608E+00 3.8456E-06 -6.0097E-07 2.2323E-10 200 1500 348 C19H380 NONADECANOIC ACID -23.711 1.9781E+00 -1.3539E-03 4.8185E-07 -7.2339E-11 298 1500 349 C19H40 n-NONADECANE 132.530 1.0358E+00 3.6926E-04 -7.9581E-07 2.6362E-10 200 1500 349 C19H40 n-NONADECANOIC ACID -23.711 1.9781E+00 -1.5644E-03 7.2308E-07 -1.3678E-10 298 1500 350 C20H16 TRIPHENYLETHYLENE -122.663 1.7649E+00 -1.5644E-03 7.2308E-07 -1.3678E-10 298 1500 350 C20H16 TRIPHENYLETHYLENE -122.663 1.7649E+00 -1.5644E-03 7.2308E-07 -1.3678E-10 298 1500 350 C20H16 TRIPHENYLETHYLENE -122.663 1.7649E+00 -1.5644E-03 7.2308E-07 -1.3678E-10 298 1500 350 C20H16 TRIPHENYLETHYLENE -122.663 1.7649E+00 -1.5644E-03 7.2308E-07 -1.3678E-10 298 1500 350 C20H16 TRIPHENYLETHYLENE -12	332	C18H22	2 Z-DIMETUVI -2 Z-DIDUCHVI DIITANE	-159.612	1.9863E+00	-1.7695E-03	8.1753E-07	-1.5467E-10	298 1500
334 C18H330	333	C18H22O2	DICUMYL PEROXIDE	-76.744	1.6944E+00	-1.2744E-03	4.7912E-07	-7.3317E-11	298 1500
335 C18H3202 LINOLEIC ACID 336 C18H3402 OLEIC ACID 337 C18H3404 DIBUTYL SEBACATE 338 C18H3404 DIBUTYL SEBACATE 339 C18H36 1-OCTADECENE 340 C18H3602 STEARIC ACID 341 C18H38 n-OCTADECANE 342 C18H380 DINONYL ETHER 343 C18H380 1-OCTADECANOL 344 C19H26 1-n-NONYLNAPHTHALENE 345 C19H3602 n-TRIDECYLBENZENE 346 C19H3602 NONADECANOL 347 C19H38 1-NONADECENE 348 C19H3802 NONADECANOL 349 C19H3602 NONADECANOL 340 C18H3602 NONADECANOL 340 C18H380 1-OCTADECANOL 341 C18H380 1-OCTADECANOL 342 C18H380 1-OCTADECANOL 344 C19H26 1-n-NONYLNAPHTHALENE 359 C29PE+00 1-28B3E-03 4.9048E-07 -6.96P8E-11 298 1500 345 C19H32 n-TRIDECYLBENZENE 36-726 1-028BE+00 1-7917E-04 -6.309PE-07 2.2067E-10 200 1500 346 C19H3602 NONADECANOL 347 C19H38 1-NONADECANOL 348 C19H3802 NONADECANOL 349 C19H40 n-NONADECANOL 350 C20H16 TRIPHENYLETHYLENE -122.663 1.7649E+00 -1.5644E-03 7.2308E-07 -1.3678E-10 298 1500	334	С18Н30	n-DODECYLBENZENE	106.695	7.7941E-01	5.8463E-04	-9.4162E-07	3.0397E-10	150 1500
336 C18H3402 DLEIC ACID 337 C18H3404 DIBUTYL SEBACATE -64.966 2.2026E+00 -1.8844E-03 8.8961E-07 -1.7701E-10 298 1500 339 C18H364 DIBUTYL ADIPATE -64.614 2.0235E+00 -1.8000E-03 8.8573E-07 -1.8193E-10 298 1500 339 C18H365 1-OCTADECENE 216.021 4.1046E-01 1.3808E-03 -1.5473E-06 4.6513E-10 150 1500 340 C18H3602 STEARIC ACID 7.515 1.6996E+00 -9.2847E-04 1.7563E-07 3.6437E-12 298 1200 341 C18H380 DINONYL ETHER -39.993 1.9149E+00 -1.2953E-03 4.5896E-07 -6.9698E-11 298 1500 342 C18H380 DINONYL ETHER -39.993 1.9149E+00 -1.2953E-03 4.5896E-07 -6.9698E-11 298 1500 343 C18H380 1-OCTADECANOL 344 C19H26 1-n-NONYLNAPHTHALENE -76.861 1.7404E+00 -1.2853E-03 4.9048E-07 -7.7646E-11 298 1500 345 C19H32 n-TRIDECYLBENZENE 86.726 1.0288E+00 1.7917E-04 -6.3099E-07 2.2067E-10 200 1500 346 C19H3602 METHYL OLEATE -44.058 2.0299E+00 -1.5136E-03 6.1226E-07 -1.0656E-10 298 1500 348 C19H3802 NONADECANOIC ACID -23.711 1.9781E+00 -1.3539E-03 4.8185E-07 -7.2339E-11 298 1500 349 C19H40 n-NONADECANOI ACID -23.711 1.9781E+00 -1.3539E-03 4.8185E-07 -7.2339E-11 298 1500 350 C20H16 TRIPHENYLETHYLENE -122.663 1.7649E+00 -1.5644E-03 7.2308E-07 -1.3678E-10 298 1500	335	C18H32O2	LINOLEIC ACID	-113.518	2.1932E+00	-1.9690E-03	9.5258E-07	-1.7989E-10	298 1500
338 C18H3404 DIBUTT SEBACATE -64.4968 2.2025E+00 -1.8040E-03 8.8573E-07 -1.8193E-10 298 1500 339 C18H36 1-OCTADECENE 216.021 4.1046E-01 1.3808E-03 -1.5473E-06 4.6513E-10 150 1500 340 C18H3602 STEARIC ACID 7.515 1.6996E+00 -9.2847E-04 1.7563E-07 3.6437E-12 298 1200 341 C18H38 n-OCTADECANE 124.715 9.8653E-01 3.4273E-04 -7.4838E-07 2.4804E-10 200 1500 342 C18H380 DINONYL ETHER -39.993 1.9149E+00 -1.2953E-03 4.5896E-07 -6.9698E-11 298 1500 343 C18H380 1-OCTADECANOL 129.533 9.2997E-01 6.6025E-04 -1.1313E-06 3.7237E-10 150 1500 344 C19H26 1-n-NONYLNAPHTHALENE -76.861 1.7404E+00 -1.2853E-03 4.9048E-07 -7.7646E-11 298 1500 345 C19H32 n-TRIDECYLBENZENE 86.726 1.0288E+00 1.7917E-04 -6.3099E-07 2.2067E-10 200 1500 346 C19H3602 METHYL OLEATE -44.058 2.0299E+00 -1.5136E-03 6.1226E-07 -1.0656E-10 298 1500 348 C19H3802 NONADECANOIC ACID -23.711 1.9781E+00 -1.3539E-03 4.8185E-07 -7.2339E-11 298 1500 349 C19H40 n-NONADECANOI ACID -23.711 1.9781E+00 -1.3539E-03 4.8185E-07 -7.2339E-11 298 1500 350 C20H16 TRIPHENYLETHYLENE -122.663 1.7649E+00 -1.5644E-03 7.2308E-07 -1.3678E-10 298 1500	336	C18H34O2	OLEIC ACID	-55.663	1.9919E+00	-1.5562E-03	6.706/E-07	-1.2336E-10	298 1500
1.0000 1.00000 1.00000 1.00000 1.00000 1.00000 1.00000 1.00000 1.00000 1.00000 1.00000 1.00000 1.00000 1.00000 1.000000 1.000000 1.000000 1.000000 1.000000 1.0000000 1.0000000 1.0000000 1.0000000 1.00000000 1.000000000 1.000000000 1.0000000000	33 <i>1</i>	C18H34U4	DIRECT SERVENIE	-64.900	2.20205+00	-1.0044E-U3	0.0901E-U/	-1.//UIE-10	298 1500
340 C18H3602 STEARIC ACID 7.515 1.6996E+00 -9.2847E-04 1.7563E-07 3.6437E-10 200 1500 341 C18H380 n-OCTADECANE 124.715 9.8653E-01 3.4273E-04 -7.4838E-07 2.4804E-10 200 1500 342 C18H380 DINONYL ETHER -39.993 1.9149E+00 -1.2953E-03 4.5896E-07 -6.9698E-11 298 1500 343 C18H380 1-OCTADECANOL 129.533 9.2997E-01 6.6025E-04 -1.1313E-06 3.7237E-10 150 1500 344 C19H26 1-n-NONYLNAPHTHALENE -76.861 1.7404E+00 -1.2853E-03 4.9048E-07 -7.7646E-11 298 1500 345 C19H32 n-TRIDECYLBENZENE 86.726 1.0288E+00 1.7917E-04 -6.3099E-07 2.2067E-10 200 1500 346 C19H3602 METHYL OLEATE -44.058 2.0299E+00 -1.5136E-03 6.1226E-07 -1.0656E-10 298 1500 347 C19H38 1-NONADECANE 69.594 1.2608E+00 3.8456E-06 -6.0097E-07 2.2323E-10 200 1500 348 C19H3802 NONADECANOIC ACID -23.711 1.9781E+00 -1.3539E-03 4.8185E-07 -7.2339E-11 298 1500 349 C19H40 n-NONADECANE 132.530 1.0358E+00 3.6926E-04 -7.9581E-07 2.6362E-10 200 1500 350 C20H16 TRIPHENYLETHYLENE -122.663 1.7649E+00 -1.5644E-03 7.2308E-07 -1.3678E-10 298 1500	330	C1003404	1-OCTADECENE	216 021	4 1044F-01	1 3808E-03	-1 5/73E-06	4 6513E-10	150 1500
341 C18H38 n-OCTADECANE 124.715 9.8653E-01 3.4273E-04 -7.4838E-07 2.4804E-10 200 1500 342 C18H380 DINONYL ETHER -39.993 1.9149E+00 -1.2953E-03 4.5896E-07 -6.9698E-11 298 1500 343 C18H380 1-OCTADECANOL 129.533 9.2997E-01 6.6025E-04 -1.1313E-06 3.7237E-10 150 1500 344 C19H26 1-n-NONYLNAPHTHALENE -76.861 1.7404E+00 -1.2853E-03 4.9048E-07 -7.7646E-11 298 1500 345 C19H32 n-TRIDECYLBENZENE 86.726 1.0288E+00 1.7917E-04 -6.3099E-07 2.2067E-10 200 1500 346 C19H3602 METHYL OLEATE -44.058 2.0299E+00 -1.5136E-03 6.1226E-07 -1.0656E-10 298 1500 347 C19H38 1-NONADECANDIC ACID 69.594 1.2608E+00 3.8456E-06 -6.0097E-07 2.2323E-10 200 1500 348 C19H3802 NONADECANDIC ACID -23.711 1.9781E+00 -1.3539E-03 4.8185E-07 -7.2339E-11 298 1500 349 C19H40 n-NONADECANE 132.5	340	C18H36O2	STEARIC ACID	7.515	1.6996F+00	-9 2847F-04	1.7563F-07	3.6437F-12	298 1200
342 C18H380 DINONYL ETHER -39.993 1.9149E+00 -1.2953E-03 4.5896E-07 -6.9698E-11 298 1500 343 C18H380 1-OCTADECANOL 129.533 9.2997E-01 6.6025E-04 -1.1313E-06 3.7237E-10 150 1500 344 C19H26 1-n-NONYLNAPHTHALENE -76.861 1.7404E+00 -1.2853E-03 4.9048E-07 -7.7646E-11 298 1500 345 C19H32 n-TRIDECYLBENZENE 86.726 1.0288E+00 1.7917E-04 -6.3099E-07 2.2067E-10 200 1500 346 C19H3602 METHYL OLEATE -44.058 2.0299E+00 -1.5136E-03 6.1226E-07 -1.0656E-10 298 1500 347 C19H38 1-NONADECANDIC ACID 69.594 1.2608E+00 3.8456E-06 -6.0097E-07 2.2323E-10 200 1500 348 C19H3802 NONADECANDIC ACID -23.711 1.9781E+00 -1.3539E-03 4.8185E-07 -7.2339E-11 298 1500 349 C19H40 n-NONADECANE 132.530 1.0358E+00 3.6926E-04 -7.9581E-07 2.6362E-10 200 1500 350 C20H16 TRIPHENYLETHYLENE -122.663 1.7649E+00 -1.5644E-03 7.2308E-07 -1.3678E-10 298 1500	341	C18H38	n-OCTADECANE	124.715	9.8653E-01	3.4273E-04	-7.4838E-07	2.4804E-10	200 1500
343 C18H380 1-OCTADECANOL 129.533 9.2997E-01 6.6025E-04 -1.1313E-06 3.7237E-10 150 1500 344 C19H26 1-n-NONYLNAPHTHALENE -76.861 1.7404E+00 -1.2853E-03 4.9048E-07 -7.7646E-11 298 1500 345 C19H32 n-TRIDECYLBENZENE 86.726 1.0288E+00 1.7917E-04 -6.3099E-07 2.2067E-10 200 1500 346 C19H3602 METHYL OLEATE -44.058 2.0299E+00 -1.5136E-03 6.1226E-07 -1.0656E-10 298 1500 347 C19H38 1-NONADECANDIC ACID 69.594 1.2608E+00 3.8456E-06 -6.0097E-07 2.2323E-10 200 1500 348 C19H3802 NONADECANDIC ACID -23.711 1.9781E+00 -1.3539E-03 4.8185E-07 -7.2339E-11 298 1500 349 C19H40 n-NONADECANE 132.530 1.0358E+00 3.6926E-04 -7.9581E-07 2.6362E-10 200 1500 350 C20H16 TRIPHENYLETHYLENE -122.663 1.7649E+00 -1.5644E-03 7.2308E-07 -1.3678E-10 298 1500	342	С18Н380	DINONYL ETHER	-39.993	1.9149E+00	-1.2953E-03	4.5896E-07	-6.9698E-11	298 1500
344 C19H26 1-n-NONYLNAPHTHALENE -76.861 1.7404E+00 -1.2853E-03 4.9048E-07 -7.7646E-11 298 1500 345 C19H32 n-TRIDECYLBENZENE 86.726 1.0288E+00 1.7917E-04 -6.3099E-07 2.2067E-10 200 1500 346 C19H3602 METHYL OLEATE -44.058 2.0299E+00 -1.5136E-03 6.1226E-07 -1.0656E-10 298 1500 347 C19H38 1-NONADECRNE 69.594 1.2608E+00 3.8456E-06 -6.0097E-07 2.2323E-10 200 1500 348 C19H3802 NONADECANOIC ACID -23.711 1.9781E+00 -1.3539E-03 4.8185E-07 -7.2339E-11 298 1500 349 C19H40 n-NONADECANDE 132.530 1.0358E+00 3.6926E-04 -7.9581E-07 2.6362E-10 200 1500 350 C20H16 TRIPHENYLETHYLENE -122.663 1.7649E+00 -1.5644E-03 7.2308E-07 -1.3678E-10 298 1500	343	С18н380	1-OCTADECANOL	129.533	9.2997E-01	6.6025E-04	-1.1313E-06	3.7237E-10	150 1500
345 C19H32 n-TRIDECYLBENZENE 86.726 1.0288E+00 1.7917E-04 -6.3099E-07 2.2067E-10 200 1500 346 C19H3602 METHYL OLEATE -44.058 2.0299E+00 -1.5136E-03 6.1226E-07 -1.0656E-10 298 1500 347 C19H38 1-NONADECANOIC ACID 69.594 1.2608E+00 3.8456E-06 -6.0097E-07 2.2323E-10 200 1500 348 C19H3802 NONADECANOIC ACID -23.711 1.9781E+00 -1.3539E-03 4.8185E-07 -7.2339E-11 298 1500 349 C19H40 n-NONADECANE 132.530 1.0358E+00 3.6926E-04 -7.9581E-07 2.6362E-10 200 1500 350 C20H16 TRIPHENYLETHYLENE -122.663 1.7649E+00 -1.5644E-03 7.2308E-07 -1.3678E-10 298 1500	344	C19H26	1-n-NONYLNAPHTHALENE	-76.861	1.7404E+00	-1.2853E-03	4.9048E-07	-7.7646E-11	298 1500
346 C19H3602 METHYL OLEATE -44.058 2.0299E+00 -1.5136E-03 6.1226E-07 -1.0656E-10 298 1500 347 C19H38 1-NONADECENE 69.594 1.2608E+00 3.8456E-06 -6.0097E-07 2.2323E-10 200 1500 348 C19H3802 NONADECANOIC ACID -23.711 1.9781E+00 -1.3539E-03 4.8185E-07 -7.2339E-11 298 1500 349 C19H40 n-NONADECANE 132.530 1.0358E+00 3.6926E-04 -7.9581E-07 2.6362E-10 200 1500 350 C20H16 TRIPHENYLETHYLENE -122.663 1.7649E+00 -1.5644E-03 7.2308E-07 -1.3678E-10 298 1500	345	С19Н32	n-TRIDECYLBENZENE	86.726	1.0288E+00	1.7917E-04	-6.3099E-07	2.2067E-10	200 1500
547 C19H38 1-NONADECENE 69.594 1.2608E+00 3.8456E-06 -6.0097E-07 2.2323E-10 200 1500 348 C19H3802 NONADECANOIC ACID -23.711 1.9781E+00 -1.3539E-03 4.8185E-07 -7.2339E-11 298 1500 349 C19H40 n-NONADECANE 132.530 1.0358E+00 3.6926E-04 -7.9581E-07 2.6362E-10 200 1500 350 C20H16 TRIPHENYLETHYLENE -122.663 1.7649E+00 -1.5644E-03 7.2308E-07 -1.3678E-10 298 1500	346	C19H3602	METHYL OLEATE	-44.058	2.0299E+00	-1.5136E-03	6.1226E-07	-1.0656E-10	298 1500
349 C19H40 n-NONADECANUE 4C10 -23.711 1.9781E+00 -1.559E-05 4.8185E-07 -7.259E-11 298 1500 349 C19H40 n-NONADECANE 132.530 1.0358E+00 3.6926E-04 -7.9581E-07 2.6362E-10 200 1500 350 C20H16 TRIPHENYLETHYLENE -122.663 1.7649E+00 -1.5644E-03 7.2308E-07 -1.3678E-10 298 1500	347	C19H38	1-NUNADECENE	69.594	1.2608E+00	3.8456E-06	-6.0097E-07	2.2323E-10	200 1500
350 C20H16 TRIPHENYLETHYLENE 132.663 1.7649E+00 -1.5644E-03 7.2308E-07 -1.3678E-10 298 1500	348	C19H5802	NUNADECANE	-25./11 172 F70	1.9/875+00	-1.5559E-03	4.8185E-07	-/.2559E-11	298 1500
330 GEORITO TRIFFRENTEETHIELENE -122,003 1.70476700 -1.30446-03 7.23006-07 -1.30706-10 290 1300	347 750	C1784U C20H14	TOTOHENVIETHYLENE	132.330	1.03705+00	3.0920E*U4	7 27085-07	2.0302E-10	200 1500
								7.30701.10	

		, ,	$C_P = A + 1$	B T + C T ² +	D T3 + E T4	(C _P - jou	ile/g-mol K,	т - к)
NO	FORMULA	NAME	Α	В	С	D	E	TMIN TMAX
351	C20H28	1-n-DECYLNAPHTHALENE	-82.955	1.8664E+00	-1.4003E-03	5.4871E-07	-8.9673E-11	298 1500
352	C20H30O2	ABIETIC ACID	-260,137	2.7296F+00	-2.3498F-03	1.0242E-06	-1-8203E-10	298 1500
353	C20H31N	DEHYDROABIETYLAMINE	-127-428			9-0944E-07		
354	C20H40	1-EICOSENE	125,107	1.1243E+00	2.5851E-04	-7.3027E-07	2.4754E-10	200 1500
355	C20H42	n-EICOSANE	137,730	1.0992E+00		-8.2058E-07		
356	C20H42O	1-EICOSANOL	149.479	9.8474E-01		-1.3392E-06		
	C21H21O4P	TRI-o-CRESYL PHOSPHATE						
358	C22H44O2	n-BUTYL STEARATE	-69.046	2.5211F+00	-2.0966F-03	1.0835E-06	-2.7531F-10	298 1200
	C24H38O4	DIISOOCTYL PHTHALATE	-87.607			2.5129E-07		
	C24H38O4	DIOCTYL PHTHALATE	-82.524		-1.2839E-03			
	C24H42O	DINONYLPHENOL	-21.466			-8.3690E-08		
	C26H20	TETRAPHENYLETHYLENE	-149.970			8.9829E-07		
	C28H46O4	DIISODECYL PHTHALATE	-128.947			9.4298E-07		

Appendix F

COMPOUND LIST BY FORMULA

CBPC112 ROMONIC ICLOROME FLUARME 17(vol 1) C218/212 D CELOROMACE FLUC 77(vol 1) C218/214 1,1,1,2-TETRACHLOGO FLUARME 77(vol 1) C218/214 1,1,1,2,2-TETRACHLOGO FLUARME 77(vol 1) C218/214 1,1,1,2,2-TETRACHLOGO FLUARME 77(vol 1) C218/214 1,1,1,2,2-TETRACHLOGO FLUARME 77(vol 1) C218/214 1,1,2,2-TETRACHLOGO FLUARME 77(vol 1) C218/214 1,1,2,2,2-TETRACHLOGO FLUARME 77(vol 1) C218/214 1,2,2,2,2,2,2,2,2,2,2,2,2,2,2,2,2,2,2,2						
CERTEZ DIRONGOFLUDGOMETHAME						
CREATE DISROMOIF FLUDGORETHANE 4(Vol 1) C2RICLIS 1,1,2-TETRICHLOROFTHANE 77(Vol 1) CCIRC TO CARROL 1,1,2,2-TETRICHLOROFTHANE 77(Vol 1) CCIRC CARRON TO CARROL			•			
CCLTS CHANGED FUNDED SET AND CONTRIBUTIONS CHEMICAL STATES CHANGE FINANE. 5(Vol. 1) C2R2CL 1, 1, 1, 2, 2-TETRACHLORGETHANE. 75(Vol. 1) C2R2CL 1, 1, 2, 2-TETRACHLORGETHANE. 77(Vol. 1) C2R2CL 2) PICKLORGETHANE. 77(Vol. 1) C2R2CL 1, 1-DIFLUGRECHANE. 77(Vol. 1) C2R2CL 2, 1, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2,	CBrF3	BROMOTRIFLUOROMETHANE)			
CCLTS CHANGED FUNDED SET AND CONTRIBUTIONS CHEMICAL STATES CHANGE FINANE. 5(Vol. 1) C2R2CL 1, 1, 1, 2, 2-TETRACHLORGETHANE. 75(Vol. 1) C2R2CL 1, 1, 2, 2-TETRACHLORGETHANE. 77(Vol. 1) C2R2CL 2) PICKLORGETHANE. 77(Vol. 1) C2R2CL 1, 1-DIFLUGRECHANE. 77(Vol. 1) C2R2CL 2, 1, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2,	CBr2F2	DIBROMODIFLUOROMETHANE4(Vol 1)	C2H2Cl3F	F 1,1,1-TRICHLOROFLUOROETHANE74(Vol 1)	,
CCIPP DIRECTOR CONTRIBUTED 6.00 1 C2R22 I 1.7 1.2 FERRACHLORGETHAME 77(Vol 1) C2R22 I 1.7 1.7 FERRACHLORGETHAME 77(Vol 1) C2R22 I 1.7 1.7 FERRACHLORGETHAME 77(Vol 1) C2R22 C2R2 L1.7 L1.7 FERRACHLORGETHAME 77(Vol 1) C2R22 C2R2 C2R2 L1.7 L1.7 FERRACHLORGETHAME 77(Vol 1) C2R22 C2R2 C2R2 L1.7 L1.7 FERRACHLORGETHAME 77(Vol 1) C2R22 C1R2 C2R2 C2R2 C2R2 C2R2 C2R2 C2R	CCLF3	CHLOROTRIFLUOROMETHANE)	C2H2Cl4	1.1.1.2-TETRACHLOROETHANE)
CCL22 PIOCH, ORODETHURGEMETHANE. 7(Vol. 1) C2R2F2 1,1-1,1-TERATURGEMENTANE. 76(Vol. 1) CCL35 TRICHLOROPETHANE. 9(Vol. 1) C2R2D KETER. 77(Vol. 1) CCL35 TRICHLOROPETHANE. 9(Vol. 1) C2R2D KETER. 77(Vol. 1) CCR2D KETER. 77(Vol. 1) CCR2D KETER. 77(Vol. 1) CCR2D KETER. 77(Vol. 1) CCR2D CARGONIT. 75(Vol. 1) CCR2D CARGONIT.						
CC125 PROSERVE. B. 9(Vol. 1) C2R2F4 1,1,2-TETRAFLUCROETHAME. 79(Vol. 1) C2R2C6 (ETEME. 79(Vol. 1						
CC15 TRICHLOROPLUSCAMETHANE. 9(Vol. 1) C2R20 KETERE. 79(Vol. 1) C2R20 CARLO TETRACHLORIDE. 10(Vol. 1) C2R3C OXALIC ACID. 80(Vol. 1) C2R3C CARGON TETRACHLORIDE. 11(Vol. 1) C2R3C VIVE ROMIDE. 81(Vol. 1) C2R3C CARGON TETRACHLORIDE. 11(Vol. 1) C2R3C VIVE ROMIDE. 81(Vol. 1) C2R3C VIVE ROMIDE. 82(Vol. 1) C2R3C VIVE ROMIDE. 82(Vol. 1) C2R3C VIVE ROMIDE. 82(Vol. 1) C4R3C VIVE ROMIDE. 83(Vol. 1) C4R3C					1 1 1 2-TETRACI HODOCTUANE 79/Vol 1)	′
CECL CARBON TETRACHICRIDE 11(Vol 1) C2H30						
CP20						
CFA						
CHRIST TRIBROMORTHANE	CF2O					
CHICLE CHICROFILURGOMETHANE	CF4			C2H3Cl	VINYL CHLORIDE82(Vol 1))
CHICLE CHICROFILURGOMETHANE	CHBr3	TRIBROMOMETHANE	1)	C2H3ClF2	2 1-CHLORO-1,1-DIFLUOROETHANE83(Vol 1)	,
CHC13 CHLOROFORM	CHClF2	CHLORODIFLUOROMETHANE14(Vol	1)			
CHC13 CHLOROFORM	CHC\2F	DICHLOROFLUOROMETHANE15(Vol	1)	C2H3ClO	CHLOROACETALDEHYDE85(Vol 1))
CHS TRIFLUDROMETHANE 17(Vol 1) CZNSCIOZ METHYL CHLOROFORMATE 8.87(Vol 1) CRUBECT BROMOCHLOROMETHANE 19(Vol 1) CZNSCI 3 1,1,2-TRICHLOROSTHANE 8.99(Vol 1) CRUBECT BROMOCHLOROMETHANE 19(Vol 1) CZNSCI 3 1,1,2-TRICHLOROSTHANE 8.99(Vol 1) CRUBECT BROMOCHLOROMETHANE 19(Vol 1) CZNSCI 3 1,1,2-TRICHLOROSTHANE 99(Vol 1) CRUBECT DIRECTORY CONTROL 19 CRUBECT STATE	CHC13					
CHM HYDROGEN CYANIDE. 18(Vol 1) C2H3C13 1,1,1-TRICHLOROSTHAME. 88(Vol 1) CR2BF2 DIBROMMETHAME. 19(Vol 1) C2H3C3 1,1,2-TRICHLOROSTHAME. 89(Vol 1) CR2BF2 DIBROMMETHAME. 20(Vol 1) C2H3F3 1,1-TRICHLOROSTHAME. 90(Vol 1) CR2F2 DIFLUROROMETHAME. 21(Vol 1) C2H3F3 1,1-TRICHLOROSTHAME. 91(Vol 1) CR2F2 DIFLUROROMETHAME. 22(Vol 1) C2H3F3 1,1-TRICHLOROSTHAME. 92(Vol 1) CR2F2 DIFLUROROMETHAME. 22(Vol 1) C2H3F3 1,1-TRICHLOROSTHAME. 92(Vol 1) CR2F3 DIFLUROROMETHAME. 23(Vol 1) C2H3F3 1,1-TRICHLOROSTHAME. 92(Vol 1) CR2F3 ACETOMITRILE. 92(Vol 1) CR2F3 DIFLUROROMETHAME. 94(Vol 1) CR2F3 METHYL BROWNETHAME. 95(Vol 1) CR3F3 METHYL RENORIDE. 25(Vol 1) C2H4F2 1,1-DIBROMOSTHAME. 95(Vol 1) CR3F3 METHYL CRUCKOSTLAME. 26(Vol 1) CR3F3 METHYL CRUCKOSTLAME. 26(Vol 1) CR3F3 METHYL CRUCKOSTLAME. 26(Vol 1) CR3F3 METHYL LUDIDE. 25(Vol 1) CR3F4 METHYL LUDIDE. 25						
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C2HC15 PENTACHLOROETHANE .63(Vol 1) C3F8 OCTAFLUOROPROPANE .133(Vol 1) C2HF302 TRIFLUOROACETIC ACID .64(Vol 1) C3H2N2 MALONONITRILE .134(Vol 1) C2HF5 PENTAFLUOROETHANE .65(Vol 1) C3H3Cl PROPARGYL CHLORIDE .135(Vol 1) C2H2 ACETYLENE .66(Vol 1) C3H3N ACRYLONITRILE .136(Vol 1) C2H2Br4 1,1,2,2-TETRABROMOETHANE .67(Vol 1) C3H3NO OXAZOLE .137(Vol 1) C2H2Cl2 1,1-DICHLOROETHYLENE .68(Vol 1) C3H4 METHYLACETYLENE .138(Vol 1) C2H2Cl2 cis-1,2-DICHLOROETHYLENE .69(Vol 1) C3H4 PROPADIENE .139(Vol 1)						
C2HF302 TRIFLUOROACETIC ACID						
C2HF5 PENTAFLUOROETHANE .65(Vol 1) C3H3Cl PROPARGYL CHLORIDE .135(Vol 1) C2H2 ACETYLENE .66(Vol 1) C3H3N ACRYLONITRILE .136(Vol 1) C2H2Br4 1,1,2,2-TETRABROMOETHANE .67(Vol 1) C3H3NO OXAZOLE .137(Vol 1) C2H2Cl2 1,1-DICHLOROETHYLENE .68(Vol 1) C3H4 METHYLACETYLENE .138(Vol 1) C2H2Cl2 cis-1,2-DICHLOROETHYLENE .69(Vol 1) C3H4 PROPADIENE .139(Vol 1)	C2HCl5	PENTACHLOROETHANE	1)	C3F8	OCTAFLUOROPROPANE	1)
C2HF5 PENTAFLUOROETHANE .65(Vol 1) C3H3Cl PROPARGYL CHLORIDE .135(Vol 1) C2H2 ACETYLENE .66(Vol 1) C3H3N ACRYLONITRILE .136(Vol 1) C2H2Br4 1,1,2,2-TETRABROMOETHANE .67(Vol 1) C3H3NO OXAZOLE .137(Vol 1) C2H2Cl2 1,1-DICHLOROETHYLENE .68(Vol 1) C3H4 METHYLACETYLENE .138(Vol 1) C2H2Cl2 cis-1,2-DICHLOROETHYLENE .69(Vol 1) C3H4 PROPADIENE .139(Vol 1)	C2HF302	TRIFLUOROACETIC ACID64(Vol	1)	C3H2N2	MALONONITRILE	1)
C2H2 ACETYLENE						
C2H2Br4 1,1,2,2-TETRABROMOETHANE						
C2H2Cl2 1,1-DICHLOROETHYLENE						
C2H2Cl2 cis-1.2-DICHLOROETHYLENE						
C2H2Cl2 trans-1,2-DICHLOROETHYLENE					DDODADIENE 470411 4	1)
CZHZCIZ Trans-1,Z-DICHLORUEIHYLENE/U(Vol 1) C3H4CIZ Z,3-DICHLOROPROPENE140(Vol 1)	C2H2C12	CIS-1,2-DICHLUKUEIHTLENE	1)		PROPADIENE	1)
	C2H2C12	Trans-1,2-DICHLORUEIHYLENE/U(Vol	1)	C3H4CL2	2,3-DICHLOROPROPENE140(Vol 1	1)

0711/0	400015711 4/4/1/-1	4.	0/11/07	CHOCKNIC ANUVODIDE	21044-1	1.
C3H4O	ACROLEIN	1)	C4H403	SUCCINIC ANHYDRIDE		
C3H4O C3H4O2	PRUPARGIL ALLUMUL	1)	C4H4O4	MALEIC ACID		
C3H4O2	ACRYLIC ACID		C4H4O4 C4H4S	THIOPHENE		
	VINYL FORMATE145(Vol		C4H5Cl	CHLOROPRENE		
C3H4O2 C3H4O3	ETHYLENE CARBONATE146(Vol		C4H5N	trans-CROTONITRILE		
C3H4O3	PYRUVIC ACID147(Vol		C4H5N	cis-CROTONITRILE		
C3H5Cl	2-CHLOROPROPENE148(Vol		C4H5N	METHACRYLONITRILE		
C3H5Cl	3-CHLOROPROPENE149(Vol		C4H5N	PYRROLE		
	alpha-EPICHLOROHYDRIN150(Vol		C4H5N	VINYLACETONITRILE		
	METHYL CHLOROACETATE			METHYL CYANOACETATE	-	
	ETHYL CHLOROFORMATE		C4H5N02	1,2-BUTADIENE	230(Vol	1
	1,2,3-TRICHLOROPROPANE153(Vol		C4116	1,3-BUTADIENE	231(Vol	1
C3H5N	PROPIONITRILE		C4H6	DIMETHYLACETYLENE	232(Vol	- 11
C3H5NO	ACRYLAMIDE		C4H6	ETHYLACETYLENE		
C3H5NO	HYDRACRYLONITRILE			1,3-DICHLORO-trans-2-BUTENE		
C3H5NO	LACTONITRILE		C4H6Cl2	1,4-DICHLORO-cis-2-BUTENE		
	NITROGLYCERINE		C4H6Cl2	1,4-DICHLORO-trans-2-BUTENE	236(Vol	15
C3H6	CYCLOPROPANE	1)		3.4-DICHLORO-1-BUTENE		
C3H6	PROPYLENE160(Vol		C4H60	trans-CROTONALDEHYDE		
	1,1-DICHLOROPROPANE161(Vol		C4H60	2,5-DIHYDROFURAN		
C3H6Cl2	1,2-DICHLOROPROPANE162(Vol	11	C4H60	DIVINYL ETHER		
	1,3-DICHLOROPROPANE		C4H60	METHACROLEIN		
C3H6O	ACETONE164(Vol		C4H602	2-BUTYNE-1,4-DIOL		
C3H6O	ALLYL ALCOHOL165(Vol		C4H602	gamma-BUTYROLACTONE		
C3H6O	METHYL VINYL ETHER		C4H602	cis-CROTONIC ACID		
C3H6O	n-PROPIONALDEHYDE167(Vol		C4H6O2	trans-CROTONIC ACID		
C3H6O	1,2-PROPYLENE OXIDE168(Vol		C4H602	METHACRYLIC ACID		
C3H6O	1,3-PROPYLENE OXIDE169(Vol		C4H602	METHYL ACRYLATE	247(Vol	15
C3H6O2	ETHYL FORMATE		C4H602	VINYL ACETATE		
C3H6O2	METHYL ACETATE171(Vol		C4H603	ACETIC ANHYDRIDE		
C3H6O2	PROPIONIC ACID		C4H6O4	SUCCINIC ACID		
C3H6O2S	3-MERCAPTOPROPIONIC ACID173(Vol		C4H605	DIGLYCOLIC ACID		
СЗН6ОЗ	LACTIC ACID174(Vol		C4H605	MALIC ACID		
C3H6O3	METHOXYACETIC ACID		C4H606	TARTARIC ACID		
C3H6O3	TRIOXANE176(Vol	1)	C4H7N	n-BUTYRONITRILE		
C3H7Br	1-BROMOPROPANE		C4H7N	ISOBUTYRONITRILE		
C3H7Br	2-BROMOPROPANE	1)	C4H7NO	ACETONE CYANOHYDRIN	256(Vol	1)
C3H7Cl	ISOPROPYL CHLORIDE		C4H7NO	2-METHACRYLAMIDE		
C3H7Cl	n-PROPYL CHLORIDE180(Vol		C4H7NO	3-METHOXYPROPIONITRILE		
C3H7I	ISOPROPYL IODIDE181(Vol	1)	C4H7NO	2-PYRROLIDONE		
C3H7I	n-PROPYL IODIDE182(Vol		C4H8	1-BUTENE		
C3H7N	ALLYLAMINE183(Vol		C4H8	cis-2-BUTENE	261(Vol	1)
C3H7N	PROPYLENEIMINE		C4H8	trans-2-BUTENE	262(Vol	1)
C3H7NO	N,N-DIMETHYLFORMAMIDE185(Vol		C4H8	CYCLOBUTANE		
C3H7NO	N-METHYLACETAMIDE		C4H8	I SOBUTENE	264(Vol	1)
C3H7NO2	1-NITROPROPANE187(Vol	1)	C4H8Cl2	1,4-DICHLOROBUTANE	265(Vol	1)
C3H7NO2	2-NITROPROPANE	1)	C4H80	n-BUTYRALDEHYDE	266(Vol	1)
C3H8	PROPANE189(Vol	1)	C4H80	I SOBUTYRALDEHYDE	267(Vol	1)
СЗН8О	ISOPROPANOL190(Vol	1)	C4H80	1,2-EPOXYBUTANE	268(Vol	1)
СЗН8О	METHYL ETHYL ETHER191(Vol	1)	C4H80	MÉTHYL ETHYL KETONE	269(Vol	1)
C3H8O	n-PROPANOL192(Vol		C4H80	ETHYL VINYL ETHER	270(Vol	1)
C3H8O2	2-METHOXYETHANOL193(Vol	1)	C4H80	TETRAHYDROFURAN	271(Vol	1)
C3H8O2	METHYLAL194(Vol		C4H802	cis-2-BUTENE-1,4-DIOL	272(Vol	1)
C3H8O2	1,2-PROPYLENE GLYCOL195(Vol	1)	C4H802	trans-2-BUTENE-1,4-DIOL		
C3H8O2	1,3-PROPYLENE GLYCOL196(Vol	1)	C4H802	ISOBUTYRIC ACID	274(Vol	1)
C3H8O3	GLYCEROL197(Vol		C4H802	n-BUTYRIC ACID	275(Vol	1)
C3H8S	n-PROPYLMERCAPTAN198(Vol	1)	C4H802	1,4-DIOXANE		
C3H8S	ISOPROPYL MERCAPTAN199(Vol	1)	C4H802	ETHYL ACETATE	277(Vol	1)
C3H9N	n-PROPYLAMINE200(Vol	1)	C4H802	METHYL PROPIONATE	278(Vol	1)
C3H9N	ISOPROPYLAMINE201(Vol	1)	C4H802	n-PROPYL FORMATE	279(Vol	1)
C3H9N	TRIMETHYLAMINE202(Vol	1)	C4H802S			
C3H9NO	1-AMINO-2-PROPANOL203(Vol	1)	C4H8S	TETRAHYDROTHIOPHENE		
C3H9NO	3-AMINO-1-PROPANOL204(Vol	1)	C4H9Br	1-BROMOBUTANE	282(Vol	1)
C3H9NO	METHYLETHANOLAMINE205(Vol	1)	C4H9Br	2-BROMOBUTANE	283(Vol	1)
C3H9O4P	TRIMETHYL PHOSPHATE206(Vol	1)	C4H9Cl	n-BUTYL CHLORIDE		
C3H10N2	1,2-PROPANEDIAMINE207(Vol	1)	C4H9Cl	sec-BUTYL CHLORIDE		
C3H1Osi	TRIMETHYL SILANE208(Vol	1)	C4H9Cl	tert-BUTYL CHLORIDE		
C4Cl4S	TETRACHLOROTHIOPHENE209(Vol	1)	C4H9N	PYRROLIDINE		
C4Cl6	HEXACHLORO-1,3-BUTADIENE210(Vol	1)	C4H9NO	N,N-DIMETHYLACETAMIDE		
C4F8	OCTAFLUORO-2-BUTENE211(Vol	1)	C4H9NO	MORPHOLINE	289(Vol	1)
C4F8	OCTAFLUOROCYCLOBUTANE212(Vol		C4H10	n-BUTANE		
C4F10	DECAFLUOROBUTANE213(Vol		C4H10	I SOBUTANE	291(Vol	1)
C4H2O3	MALEIC ANHYDRIDE214(Vol		C4H10N2			
C4H4	VINYLACETYLENE215(Vol		C4H100	n-BUTANOL		
C4H4N2	SUCCINONITRILE216(Vol		C4H100	sec-BUTANOL		
C4H4O	FURAN217(Vol		C4H100	tert-BUTANOL		
C4H4O2	DIKETENE218(Vol		C4H100	DIETHYL ETHER	296(Vol	1)

C4H100 METHYL ISOPROPYL ETHER297(Vol 1)	C5H100 VALERALDEHYDE52(Vol 2)
C4H100 ISOBUTANOL298(Vol 1)	C5H1002 n-BUTYL FORMATE53(Vol 2)
C4H1002 1,3-BUTANEDIOL299(Vol 1)	C5H10O2 ETHYL PROPIONATE54(Vol 2)
C4H1002 1,4-BUTANEDIOL300(Vol 1)	C5H1002 ISOBUTYL FORMATE55(Vol 2)
C4H1002 2,3-BUTANEDIOL	C5H1002 ISOPROPYL ACETATE56(Vol 2)
C4H10O2 t-BUTYL HYDROPEROXIDE302(Vol 1)	C5H1002 n-PROPYL ACETATE57(Vol 2)
C4H10O2 1,2-DIMETHOXYETHANE303(Vol 1)	C5H1002 METHYL n-BUTYRATE58(Vol 2)
C4H1002 2-ETHOXYETHANOL304(Vol 1)	C5H1002 2-METHYLBUTYRIC ACID
C4H1003 DIETHYLENE GLYCOL305(Vol 1)	C5H1002 ISOVALERIC ACID
C4H1004S DIETHYL SULFATE306(Vol 1)	C5H1002 VALERIC ACID
C4H10S n-BUTYL MERCAPTAN	C5H1002 VALERIC ACID:
C4H10S ISOBUTYL MERCAPTAN	C5H1002S 3-METHYL SULFOLANE
C4H1OS sec-BUTYL MERCAPTAN309(Vol 1)	C5H10O3 DIETHYL CARBONATE
C4H1OS tert-BUTYL MERCAPTAN310(Vol 1)	C5H10O3 ETHYL LACTATE
C4H1OS DIETHYL SULFIDE	C5H11Cl 1-CHLOROPENTANE
C4H1OS2 DIETHYL DISULFIDE	C5H11N N-METHYLPYRROLIDINE
C4H11N n-BUTYLAMINE313(Vol 1)	C5H11N PIPERIDINE
C4H11N ISOBUTYLAMINE314(Vol 1)	C5H11NO tert-BUTYLFORMAMIDE
C4H11N sec-BUTYLAMINE	C5H12 ISOPENTANE
C4H11N tert-BUTYLAMINE	C5H12 NEOPENTANE
C4H11N DIETHYLAMINE	C5H12 n-PENTANE
C4H11NO DIMETHYLETHANOLAMINE	C5H120 2,2-DIMETHYL-1-PROPANOL
C4H11NO2 DIETHANOLAMINE	C5H12O 2-METHYL-1-BUTANOL
C4H11NO2 2-AMINOETHOXYETHANOL320(Vol 1)	C5H12O 2-METHYL-2-BUTANOL
C4H12N2O N-AMINOETHYL ETHANOLAMINE321(Vol 1)	C5H12O 3-METHYL-1-BUTANOL
C4H12Si TETRAMETHYLSILANE322(Vol 1)	C5H12O 3-METHYL-2-BUTANOL
C4H13N3 DIETHYLENE TRIAMINE323(Vol 1)	C5H12O 1-PENTANOL
C5Cl6 HEXACHLOROCYCLOPENTADIENE1(Vol 2)	C5H12O 2-PENTANOL
C5H4O2 FURFURAL	C5H12O 3-PENTANOL80(Vol 2)
C5H5N PYRIDINE	C5H12O METHYL sec-BUTYL ETHER81(Vol 2)
C5H6 CYCLOPENTADIENE4(Vol 2)	C5H12O METHYL tert-BUTYL ETHER82(Vol 2)
C5H6 2-METHYL-1-BUTENE-3-YNE5(Vol 2)	C5H12O METHYL ISOBUTYL ETHER83(Vol 2)
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C5H6O2 FURFURYL ALCOHOL	C5H12O2 1,5-PENTANEDIOL
C5H6O3 GLUTARIC ANHYDRIDE10(Vol 2)	C5H12O3 2-(2-METHOXYETHOXY)ETHANOL88(Vol 2)
C5H6O4 CITRACONIC ACID11(Vol 2)	C5H12O4 PENTAERYTHRITOL89(Vol 2)
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C5H8 1-PENTYNE	C6H4ClNO2 o-CHLORONITROBENZENE
C5H8 3-METHYL-1-BUTYNE24(Vol 2)	C6H4CINO2 p-CHLORONITROBENZENE
C5H8N4O12 PENTAERYTHRITOL TETRANITRATE25(Vol 2)	C6H4Cl2 m-DICHLOROBENZENE
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C5H8O CYCLOPENTANONE	C6H4Cl2 o-DICHLOROBENZENE
C5H8O METHYL ISOPROPENYL KETONE27(Vol 2)	C6H4Cl2 p-DICHLOROBENZENE105(Vol 2)
C5H8O2 ACETYLACETONE	C6H4N2O4 m-DINITROBENZENE
C5H8O2 ALLYL ACETATE29(Vol 2)	C6H4N2O4 o-DINITROBENZENE
C5H8O2 ETHYL ACRYLATE30(Vol 2)	C6H4N2O4 p-DINITROBENZENE
C5H8O2 METHYL METHACRYLATE31(Vol 2)	C6H5Br BROMOBENZENE109(Vol 2)
C5H8O2 VINYL PROPIONATE32(Vol 2)	C6H5Cl MONOCHLOROBENZENE110(Vol 2)
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C5H9NO n-BUTYL ISOCYANATE38(Vol 2)	C6H5I IODOBENZENE
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C5H10 CYCLOPENTANE	C6H6ClN m-CHLOROANILINE
C5H10 2-METHYL-1-BUTENE	C6H6ClN o-CHLOROANILINE
C5H10 2-METHYL-2-BUTENE	C6H6ClN p-CHLOROANILINE
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	ADIDOUTEDILE 1/0/Val	2)	C6H14 n-HEXANE
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C6H8N2			
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C6H8O7	CITRIC ACID149(Vol		C6H14O n-BUTYL ETHYL ETHER227(Vol 2)
C6H10	CYCLOHEXENE	2)	C6H14O DIISOPROPYL ETHER228(Vol 2)
C6H10	2,3-DIMETHYL-1,3-BUTADIENE151(Vol	2)	C6H14O DI-n-PROPYL ETHER229(Vol 2)
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	2-HEXYNE		C6H1402 HEXYLENE GLYCOL234(Vol 2)
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C6H10	3-HEXYNE	_ •	C6H14O2S DI-n-PROPYL SULFONE235(Vol 2)
C6H100	CYCLOHEXANONE		C6H14O3 DIETHYLENE GLYCOL DIMETHYL ETHER236(Vol 2)
C6H100	MESITYL OXIDE	2)	C6H14O3 DIPROPYLENE GLYCOL237(Vol 2)
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Appendix G

COMPOUND LIST BY NAME

ABIETIC ACID352(Vol 3)	BROMOCHLOROMETHANE19(Vol 1)
ACENAPHTHENE240(Vol 3)	BROMOETHANE106(Vol 1)
ACETAL231(Vol 2)	1-BROMOHEPTANE
ACETALDEHYDE	1-BROMONAPHTHALENE161(Vol 3)
ACETAMIDE112(Vol 1)	1-BROMOPROPANE
ACETANILIDE16(Vol 3)	2-BROMOPROPANE
ACETIC ACID104(Vol 1)	p-BROMOTOLUENE285(Vol 2)
ACETIC ANHYDRIDE249(Vol 1)	BROMOTRICHLOROMETHANE
ACTION ANTIDRIDE	
ACETONE	BROMOTRIFLUOROETHYLENE
ACETONE CYANOHYDRIN256(Vol 1)	BROMOTRIFLUOROMETHANE
ACETONITRILE92(Vol 1)	1,2-BUTADIENE230(Vol 1)
ACETOPHENONE9(Vol 3)	1,3-BUTADIENE231(Vol 1)
ACETYL CHLORIDE84(Vol 1)	n-BUTANE290(Vol 1)
ACETYLACETONE28(Vol 2)	1,3-BUTANEDIOL299(Vol 1)
ACETYLENE	1,4-BUTANEDIOL300(Vol 1)
ACROLEIN141(Vol 1)	2,3-BUTANEDIOL
ACRYLAMIDE155(Vol 1)	n-BUTANOL293(Vol 1)
ACRYLIC ACID143(Vol 1)	sec-BUTANOL294(Vol 1)
ACRYLONITRILE	tert-BUTANOL
ADIPIC ACID	1-BUTENE260(Vol 1)
ADIPONITRILE140(Vol 2)	cis-2-BUTENE
ALLYLAMINE	trans-2-BUTENE
ALLYL ACETATE	cis-2-BUTENE-1.4-DIOL272(Vol 1)
	C1S-2-BUTENE-1,4-DIUL
ALLYL ALCOHOL	trans-2-BUTENE-1,4-DIOL273(Vol 1)
p-AMINOAZOBENZENE245(Vol 3)	2-BUTOXYETHANOL232(Vol 2)
p-AMINODIPHENYL243(Vol 3)	n-BUTYL ACETATE199(Vol 2)
p-AMINODIPHENYLAMINE250(Vol 3)	sec-BUTYL ACETATE200(Vol 2)
2-AMINOETHOXYETHANOL321(Vol 1)	tert-BUTYL ACETATE201(Vol 2)
N-AMINOETHYL ETHANOLAMINE320(Vol 1)	n-BUTYL ACRYLATE311(Vol 2)
N-AMINOETHYL PIPERAZINE252(Vol 2)	n-BUTYL BENZOATE229(Vol 3)
1-AMINOHEPTANE	n-BUTYL n-BUTYRATE62(Vol 3)
6-AMINOHEXANOL249(Vol 2)	n-BUTYL CHLORIDE284(Vol 1)
1-AMINO-2-PROPANOL	sec-BUTYL CHLORIDE285(Vol 1)
3-AMINO-1-PROPANOL204(Vol 1)	tert-BUTYL CHLORIDE286(Vol 1)
p-tert-AMYLPHENOL231(Vol 3)	n-BUTYL ETHYL ETHER227(Vol 2)
ANETHOLE	n-BUTYL FORMATE53(Vol 2)
ANILINE	sec-BUTYL GLYCOLATE213(Vol 2)
	t-BUTYL HYDROPEROXIDE302(Vol 1)
ANISOLE	
ANTHRACENE283(Vol 3)	n-BUTYL ISOCYANATE
ANTHRAQUINONE282(Vol 3)	n-BUTYL MERCAPTAN
ASCORBIC ACID148(Vol 2)	sec-BUTYL MERCAPTAN309(Vol 1)
AZELAIC ACID131(Vol 3)	tert-BUTYL MERCAPTAN310(Vol 1)
BENZALDEHYDE280(Vol 2)	n-BUTYL METHACRYLATE39(Vol 3)
BENZENE118(Vol 2)	n-BUTYL NONANOATE278(Vol 3)
1,2-BENZENEDIOL129(Vol 2)	n-BUTYL PROPIONATE345(Vol 2)
1,3-BENZENEDIOL	n-BUTYL STEARATE358(Vol 3)
1,2,3-BENZENETRIOL	n-BUTYL VALERATE
BENZOIC ACID281(Vol 2)	BUTYL VINYL ETHER191(Vol 2)
BENZONITRILE270(Vol 2)	n-BUTYLAMINE313(Vol 1)
BENZOPHENONE	sec-BUTYLAMINE
BENZOTHIOPHENE	tert-BUTYLAMINE
BENZOTRICHLORIDE268(Vol 2)	n-BUTYLBENZENE
	sec-BUTYLBENZENE
BENZOTRIFLUORIDE	
BENZOYL CHLORIDE	tert-BUTYLBENZENE
BENZYL ACETATE114(Vol 3)	p-tert-BUTYLCATECHOL193(Vol 3)
BENZYL ALCOHOL	n-BUTYLCYCLOHEXANE209(Vol 3)
BENZYL BENZOATE	tert-BUTYLFORMAMIDE69(Vol 2)
BENZYL CHLORIDE286(Vol 2)	1-n-BUTYLNAPHTHALENE292(Vol 3)
BENZYL DICHLORIDE273(Vol 2)	p-tert-BUTYLPHENOL192(Vol 3)
BENZYL ETHYL ETHER126(Vol 3)	2-BUTYNE-1,4-DIOL242(Vol 1)
BENZYLAMINE302(Vol 2)	n-BUTYRALDEHYDE266(Vol 1)
BICYCLOHEXYL259(Vol 3)	n-BUTYRIC ACID275(Vol 1)
BIPHENYL241(Vol 3)	BUTYRIC ANHYDRIDE40(Vol 3)
BIS(CHLOROMETHYL)ETHER99(Vol 1)	gamma-BUTYROLACTONE243(Vol 1)
BIS(CYANOETHYL)ETHER146(Vol 2)	n-BUTYRONITRILE254(Vol 1)
BISPHENOL A302(Vol 3)	CAMPHENE
BROMOBENZENE	CAMPHOR
1-BROMOBUTANE	epsilon-CAPROLACTAM170(Vol 2)
2-BROMOBUTANE	epsilon-CAPROLACTONE160(Vol 2)
	CARBON DIOXIDE
BROMOCHLORODIFLUOROMETHANE1(Vol 1)	CARDON DIGATOE

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CARBON DISULFIDE	n-DECANE
CARBON MONOXIDE42(Vol 1)	n-DECANOIC ACID212(Vol 3)
CARBON TETRACHLORIDE	1-DECANOL
CARBON TETRAFLUORIDE12(Vol 1)	1-DECENE
CARBONYL FLUORIDE	n-DECYL MERCAPTAN225(Vol 3)
CARBONYL SULFIDE43(Vol 1)	n-DECYLAMINE
CHLOROACETALDEHYDE85(Vol 1)	n-DECYLBENZENE
CHLOROACETIC ACID86(Vol 1)	n-DECYLCYCLOHEXANE
CHLOROACETYL CHLORIDE	1-n-DECYLNAPHTHALENE
o-CHLOROANILINE120(Vol 2)	DEHYDROABIETYLAMINE353(Vol 3)
m-CHLOROANILINE119(Vol 2)	cis-DECAHYDRONAPHTHALENE206(Vol 3)
p-CHLOROANILINE121(Vol 2)	trans-DECAHYDRONAPHTHALENE207(Vol 3)
o-CHLOROBENZOIC ACID267(Vol 2)	DIACETONE ALCOHOL207(Vol 2)
p-CHLOROBENZOTRIFLUORIDE263(Vol 2)	DIALLYL MALEATE
m-CHLOROBENZOYL CHLORIDE264(Vol 2)	DIBENZOFURAN238(Vol 3)
1-CHLORO-1,1-DIFLUOROETHANE83(Vol 1)	DIBENZOPYRROLE239(Vol 3)
2-CHLORO-1,1-DIFLUOROETHYLENE59(Vol 1)	DIBENZYL ETHER291(Vol 3)
CHLORODIFLUOROMETHANE14(Vol 1)	m-DIBROMOBENZENE99(Vol 2)
1-CHLORO-2,4-DINITROBENZENE95(Vol 2)	DIBROMODIFLUOROMETHANE4(Vol 1)
2-CHLOROETHANOL108(Vol 1)	1,1-DIBROMOETHANE95(Vol 1)
CHLOROFORM16(Vol 1)	1,2-DIBROMOETHANE96(Vol 1)
1-CHLORONAPHTHALENE162(Vol 3)	DIBROMOMETHANE20(Vol 1)
o-CHLORONITROBENZENE101(Vol 2)	1,2-DIBROMOTETRAFLUOROETHANE46(Vol 1)
m-CHLORONITROBENZENE100(Vol 2)	DI-n-BUTYL ETHER83(Vol 3)
p-CHLORONITROBENZENE102(Vol 2)	DI-sec-BUTYL ETHER84(Vol 3)
4-CHLORO-3-NITROBENZOTRIFLUORIDE260(Vol 2)	DI-tert-BUTYL ETHER85(Vol 3)
CHLOROPENTAFLUOROETHANE49(Vol 1)	DIBUTYL MALEATE
1-CHLOROPENTANE	DI-n-BUTYL SULFONE
o-CHLOROPHENOL	DI-t-BUTYL PEROXIDE
m-CHLOROPHENOL111(Vol 2) p-CHLOROPHENOL113(Vol 2)	DIBUTYL PHTHALATE
CHLOROPRENE223(Vol 1)	DI-n-BUTYLAMINE
2-CHLOROPROPENE	2,6-DI-tert-BUTYL-p-CRESOL304(Vol 3)
3-CHLOROPROPENE	DICHLOROACETALDEHYDE
o-CHLOROTOLUENE287(Vol 2)	DICHLOROACETIC ACID73(Vol 1)
p-CHLOROTOLUENE288(Vol 2)	DICHLOROACETYL CHLORIDE61(Vol 1)
CHLOROTRIFLUOROETHYLENE	3,4-DICHLOROANILINE
CHLOROTRIFLUOROMETHANE	m-DICHLOROBENZENE103(Vol 2)
CHRYSENE325(Vol 3)	o-DICHLOROBENZENE104(Vol 2)
CITRACONIC ACID11(Vol 2)	p-DICHLOROBENZENE105(Vol 2)
CITRIC ACID149(Vol 2)	2,4-DICHLOROBENZOTRIFLUORIDE261(Vol 2)
m-CRESOL297(Vol 2)	1,4-DICHLOROBUTANE265(Vol 1)
o-CRESOL298(Vol 2)	1,3-DICHLORO-trans-2-BUTENE234(Vol 1)
p-CRESOL299(Vol 2)	1,4-DICHLORO-cis-2-BUTENE235(Vol 1)
trans-CROTONALDEHYDE238(Vol 1) cis-CROTONIC ACID244(Vol 1)	1,4-DICHLORO-trans-2-BUTENE236(Vol 1) 3,4-DICHLORO-1-BUTENE237(Vol 1)
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trans-CROTONITRILE224(Vol 1)	1,1-DICHLOROETHANE
cis-CROTONITRILE225(Vol 1)	1,2-DICHLOROETHANE
CUMENE	1,1-DICHLOROETHYLENE
CUMENE HYDROPEROXIDE128(Vol 3)	cis-1,2-DICHLOROETHYLENE
p-CUMYLPHENOL	trans-1,2-DICHLOROETHYLENE70(Vol 1)
CYANOGEN	DICHLOROFLUOROMETHANE
CYANOGEN CHLORIDE	DICHLOROMETHANE21(Vol 1)
CYCLOBUTANE	1,2-DICHLORO-4-NITROBENZENE96(Vol 2)
CYCLOHEPTANE315(Vol 2)	1,5-DICHLOROPENTANE48(Vol 2)
1,3-CYCLOHEXADIENE	3,4-DICHLOROPHENYL ISOCYANATE262(Vol 2)
CYCLOHEXANE	1,1-DICHLOROPROPANE161(Vol 1)
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CYCLOHEXENE	2,4-DICHLOROTOLUENE
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CYCLOHEXYLBENZENE254(Vol 3)	trans-DICYANO-1-BUTENE123(Vol 2)
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CYCLOPENTADIENE	DICYCLOPENTADIENE
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p-CYMENE	DIETHYL MALONATE
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DIETHYL SULFATE	2,2-DIMETHYLHEXANE67(Vol 3)
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DIETHYLAMINE	2,4-DIMETHYLHEXANE
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2,6-DIETHYLANILINE195(Vol 3)	3,3-DIMETHYLHEXANE71(Vol 3)
	3,3"DIMETHILLEXANE
o-DIETHYLBENZENE181(Vol 3)	3,4-DIMETHYLHEXANE72(Vol 3)
m-DIETHYLBENZENE180(Vol 3)	2,6-DIMETHYLNAPHTHALENE247(Vol 3)
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DIETHYLENE GLYCOL	2,2-DIMETHYLOCTANE
DIETHYLENE GLYCOL DI-n-BUTYL ETHER267(Vol 3)	2,2-DIMETHYLPENTANE354(Vol 2)
DIETHYLENE GLYCOL DIETHYL ETHER91(Vol 3)	2,3-DIMETHYLPENTANE355(Vol 2)
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DIETHYLENE GLYCOL ETHYL ETHER ACETATE66(Vol 3)	3,3-DIMETHYLPENTANE357(Vol 2)
DIETHYLENE GLYCOL MONOBUTYL EHTER92(Vol 3)	2,2-DIMETHYL-1-PROPANOL
	2,2 DIMETRIC PROPERTY 707(Val 2)
DIETHYLENE TRIAMINE323(Vol 1)	2,6-DIMETHYLPYRIDINE303(Vol 2)
3,3-DIETHYLPENTANE140(Vol 3)	m-DINITROBENZENE106(Vol 2)
1,1-DIFLUOROETHANE100(Vol 1)	o-DINITROBENZENE
1,2-DIFLUOROETHANE	p-DINITROBENZENE108(Vol 2)
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DIISOPROPYL KETONE	DIPHENYLACETYLENE284(Vol 3)
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DIMETHYL MALEATE147(Vol 2)	DI-n-PROPYL SULFONE235(Vol 2)
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	n-DODECYL MERCAPTAN
p-DIMETHYLAMINOBENZALDEHYDE117(Vol 3)	n-DODECYL MERCAPTAN
p-DIMETHYLAMINOBENZALDEHYDE117(Vol 3)	n-DODECYL MERCAPTAN
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GLUTARIC ANHYDRIDE10(Vol 2)	ISOBUTANE291(Vol 1)
GLUTARONITRILE8(Vol 2)	ISOBUTANOL
GLYCEROL	ISOBUTENE
GLYCERYL TRIACETATE130(Vol 3)	ISOBUTYL ACETATE204(Vol 2)
GUATACOL	ISOBUTYL ACRYLATE
HALOTHANE58(Vol 1)	ISOBUTYL FORMATE
n-HEPTADECANE	ISOBUTYL ISOBUTYRATE
1-HEPTADECANOL	ISOBUTYL MERCAPTAN
1-HEPTANAL 374(Vol. 2)	ISOBUTYLAMINE
1-HEPTANAL	ISOBUTYLBENZENE
n-HEPTANOIC ACID	ISOBUTYRIC ACID
1-HEPTANOL	ISOBUTYRONITRILE255(Vol 1)
2-HEPTANOL	ISODECANOL
2-HEPTANOE	ISOPENTANE
1-HEPTENE	ISOPENTYL ACETATE
cis-2-HEPTENE325(Vol 2)	ISOPENTYL ISOVALERATE214(Vol 3)

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ISOPHORONE129(Vol 3)	METHYLACETYLENE
ISOPHTHALIC ACID3(Vol 3)	METHYLAL194(Vol 1)
ISOPHTHALOYL CHLORIDE1(Vol 3)	METHYLAMINE39(Vol 1)
ISOPRENE	N-METHYLANILINE
ISOPROPANOL190(Vol 1)	2-METHYLBENZOFURAN
ISOPROPYL ACETATE	3-METHYL-1,2-BUTADIENE17(Vol 2)
ISOPROPYL CHLORIDE	2-METHYL-1-BUTANOL
ISOPROPYL IODIDE181(Vol 1)	2-METHYL-2-BUTANOL
ISOPROPYL MERCAPTAN199(Vol 1)	3-METHYL-1-BUTANOL
ISOPROPYLAMINE	3-METHYL-2-BUTANOL
ISOPROPYLCYCLOHEXANE132(Vol 3)	2-METHYL-2-BUTENE
ISOQUINOLINE104(Vol 3)	2-METHYL-1-BUTENE42(Vol 2)
ISOVALERIC ACID60(Vol 2)	3-METHYL-1-BUTENE44(Vol 2)
ITACONIC ACID12(Vol 2)	2-METHYL-1-BUTENE-3-YNE5(Vol 2)
KETENE79(Vol 1)	3-METHYL-1-BUTYNE24(Vol 2)
LACTIC ACID	2-METHYLBUTYRIC ACID
LACTONITRILE	METHYLCYCLOHEXANE329(Vol 2)
LEVULINIC ACID	1-METHYLCYCLOHEXANOL
D-LIMONENE	cis-2-METHYLCYCLOHEXANOL338(Vol 2)
D-LIMUNENE	
LINOLEIC ACID	cis-3-METHYLCYCLOHEXANOL340(Vol 2)
LYSINE221(Vol 2)	cis-4-METHYLCYCLOHEXANOL342(Vol 2)
MALEIC ACID221(Vol 1)	trans-2-METHYLCYCLOHEXANOL339(Vol 2)
MALEIC ANHYDRIDE214(Vol 1)	trans-3-METHYLCYCLOHEXANOL341(Vol 2)
MALIC ACID252(Vol 1)	trans-4-METHYLCYCLOHEXANOL343(Vol 2)
MALONONITRILE	N-METHYLCYCLOHEXYLAMINE353(Vol 2)
3-MERCAPTOPROPIONIC ACID	METHYLCYCLOPENTADIENE
MESITYL OXIDE	METHYLCYCLOPENTANE
MESITYLENE122(Vol 3)	METHYLETHANOLAMINE205(Vol 1)
METHACROLEIN	1-METHYL-1-ETHYLCYCLOPENTANE51(Vol 3)
2-METHACRYLAMIDE257(Vol 1)	3-METHYL-3-ETHYLPENTANE74(Vol 3)
METHACRYLIC ACID	N-METHYLFORMAMIDE
METHACRYLONITRILE226(Vol 1)	METHYLGLUTARONITRILE141(Vol 2)
	2-METHYLHEPTANE
METHANE	2-METHYLHEPTANE
METHANESULFONIC ACID	3-METHYLHEPTANE
METHANOL	4-METHYLHEPTANE
METHOXYACETIC ACID	2-METHYLHEXANE
2-METHOXYETHANOL193(Vol 1)	3-METHYLHEXANE
2-(2-METHOXYETHOXY)ETHANOL88(Vol 2)	5-METHYL-1-HEXANOL
p-METHOXYPHENOL301(Vol 2)	5-METHYL-2-HEXANONE
3-METHOXYPROPIONITRILE258(Vol 1)	2-METHYL-1-HEXENE
METHYL ACETATE171(Vol 1)	3-METHYL-1-HEXENE
METHYL ACETOACETATE	4-METHYL-1-HEXENE
METHYL ACRYLATE247(Vol 1)	1-METHYLINDENE
METHYL BENZOATE11(Vol 3)	2-METHYLINDENE
METHYL BROMIDE26(Vol 1)	1-METHYLNAPHTHALENE227(Vol 3)
METHYL sec-BUTYL ETHER81(Vol 2)	2-METHYLNAPHTHALENE228(Vol 3)
METHYL tert-BUTYL ETHER82(Vol 2)	2-METHYLNONANE
METHYL n-BUTYRATE	3-METHYLNONANE
METHYL CHLORIDE	4-METHYLNONANE
METHYL CHLOROACETATE	5-METHYLNONANE220(Vol 3)
	2-METHYLOCTANE146(Vol 3)
METHYL CHLOROFORMATE87(Vol 1)	3-METHYLOCTANE
METHYL CHLOROSILANE	
METHYL CYANOACETATE229(Vol 1)	4-METHYLOCTANE148(Vol 3)
METHYL DICHLOROSILANE34(Vol 1)	2-METHYLPENTANE219(Vol 2)
METHYL DIETHANOLAMINE92(Vol 2)	3-METHYLPENTANE220(Vol 2)
METHYL DODECANOATE279(Vol 3)	2-METHYL-1-PENTANOL225(Vol 2)
METHYL ETHYL ETHER191(Vol 1)	4-METHYL-2-PENTANOL226(Vol 2)
METHYL ETHYL KETONE269(Vol 1)	2-METHYL-1-PENTENE
METHYL FLUORIDE29(Vol 1)	2-METHYL-2-PENTENE184(Vol 2)
METHYL FORMATE	3-METHYL-1-PENTENE185(Vol 2)
METHYL IODIDE	4-METHYL-1-PENTENE187(Vol 2)
METHYL ISOBUTYL ETHER83(Vol 2)	3-METHYL-cis-2-PENTENE
METHYL ISOBUTYL KETONE197(Vol 2)	4-METHYL-cis-2-PENTENE188(Vol 2)
METHYL ISOCYANATE	4-METHYL-trans-2-PENTENE189(Vol 2)
METHYL ISOCIANATE	2-METHYLPYRIDINE
METHYL ISOPROPYL ETHER297(Vol 1)	3-METHYLPYRIDINE
METHYL ISOPROPYL KETONE	4-METHYLPYRIDINE
METHYL MERCAPTAN	N-METHYLPYRROLE
METHYL METHACRYLATE31(Vol 2)	N-METHYLPYRROLIDINE67(Vol 2)
METHYL OLEATE346(Vol 3)	
	N-METHYL-2-PYRROLIDONE
METHYL tert-PENTYL ETHER230(Vol 2)	N-METHYL-2-PYRROLIDONE
	N-METHYL-2-PYRROLIDONE
METHYL tert-PENTYL ETHER230(Vol 2) METHYL PROPIONATE278(Vol 1) METHYL SALICYLATE14(Vol 3)	N-METHYL-2-PYRROLIDONE 39(Vol 2) alpha-METHYLSTYRENE 110(Vol 3) m-METHYLSTYRENE 111(Vol 3) o-METHYLSTYRENE 112(Vol 3)
METHYL tert-PENTYL ETHER230(Vol 2) METHYL PROPIONATE278(Vol 1)	N-METHYL-2-PYRROLIDONE 39(Vol 2) alpha-METHYLSTYRENE 110(Vol 3) m-METHYLSTYRENE 111(Vol 3)
METHYL tert-PENTYL ETHER	N-METHYL-2-PYRROLIDONE 39(Vol 2) alpha-METHYLSTYRENE 110(Vol 3) m-METHYLSTYRENE 111(Vol 3) o-METHYLSTYRENE 112(Vol 3)
METHYL tert-PENTYL ETHER230(Vol 2) METHYL PROPIONATE278(Vol 1) METHYL SALICYLATE14(Vol 3)	N-METHYL-2-PYRROLIDONE 39(Vol 2) alpha-METHYLSTYRENE 110(Vol 3) m-METHYLSTYRENE 111(Vol 3) o-METHYLSTYRENE 113(Vol 3) MONOCHLOROBENZENE 110(Vol 2) MONOETHANOLAMINE 127(Vol 1)
METHYL tert-PENTYL ETHER	N-METHYL-2-PYRROLIDONE 39(Vol 2) alpha-METHYLSTYRENE 110(Vol 3) m-METHYLSTYRENE 111(Vol 3) o-METHYLSTYRENE 113(Vol 3) MONOCHLOROBENZENE 110(Vol 2) MONOETHANOLAMINE 127(Vol 1)
METHYL tert-PENTYL ETHER	N-METHYL-2-PYRROLIDONE 39(Vol 2) alpha-METHYLSTYRENE 110(Vol 3) m-METHYLSTYRENE 111(Vol 3) o-METHYLSTYRENE 112(Vol 3) p-METHYLSTYRENE 113(Vol 3) MONOCHLOROBENZENE 110(Vol 2)

NEOPENTANE71(Vol 2)	trans-2-PENTENE
	1-PENTENE-3-YNE
NEOPENTYL GLYCOL86(Vol 2)	
m-NITROANILINE125(Vol 2)	1-PENTENE-4-YNE
o-NITROANILINE126(Vol 2)	n-PENTYL ACETATE348(Vol 2)
p-NITROANILINE127(Vol 2)	n-PENTYL FORMATE198(Vol 2)
o-NITROANISOLE293(Vol 2)	n-PENTYL MERCAPTAN90(Vol 2)
NITROBENZENE117(Vol 2)	n-PENTYLAMINE91(Vol 2)
3-NITROBENZOTRIFLUORIDE265(Vol 2)	n-PENTYLBENZENE
NITROETHANE114(Vol 1)	1-PENTYNE23(Vol 2)
NITROGLYCERINE158(Vol 1)	alpha-PHELLANDRENE
NITROMETHANE	beta-PHELLANDRENE
1-NITROPROPANE187(Vol 1)	PHENANTHRENE285(Vol 3)
2-NITROPROPANE188(Vol 1)	p-PHENETIDINE34(Vol 3)
m-NITROTOLUENE290(Vol 2)	PHENETOLE
o-NITROTOLUENE291(Vol 2)	PHENOL128(Vol 2)
p-NITROTOLUENE292(Vol 2)	PHENYL ISOCYANATE
n-NONADECANE	PHENYL MERCAPTAN
NONADECANOIC ACID	m-PHENYLENEDIAMINE142(Vol 2)
1-NONADECENE347(Vol 3)	o-PHENYLENEDIAMINE
1-NONANAL	p-PHENYLENEDIAMINE144(Vol 2)
n-NONANE	2-PHENYLETHANOL
n-NONANOIC ACID	PHENYLHYDRAZINE145(Vol 2)
1-NONANOL	1-PHENYLNAPHTHALENE
2-NONANOL	2-PHENYL-2-PROPANOL127(Vol 3)
1-NONENE	PHOSGENE8(Vol 1)
n-NONYL MERCAPTAN157(Vol 3)	PHTHALIC ACID4(Vol 3)
n-NONYLAMINE158(Vol 3)	PHTHALIC ANHYDRIDE2(Vol 3)
n-NONYLBENZENE303(Vol 3)	alpha-PINENE
1-n-NONYLNAPHTHALENE344(Vol 3)	beta-PINENE201(Vol 3)
NONYLPHENOL	PIPERAZINE
2-NORBORNENE	
	PIPERIDINE
n-OCTADECANE341(Vol 3)	PROPADIENE
1-OCTADECANOL	PROPANE
1-OCTADECENE	1,2-PROPANEDIAMINE207(Vol 1)
OCTAFLUORO-2-BUTENE211(Vol 1)	n-PROPANOL192(Vol 1)
OCTAFLUOROCYCLOBUTANE212(Vol 1)	PROPARGYL ALCOHOL142(Vol 1)
OCTAFLUOROPROPANE	PROPARGYL CHLORIDE
OCTAMETHYLCYCLOTETRASILOXANE101(Vol 3)	beta-PROPIOLACTONE144(Vol 1)
1-OCTANAL	n-PROPIONALDEHYDE
n-OCTANE	PROPIONIC ACID
n-OCTANOIC ACID65(Vol 3)	PROPIONIC ANHYDRIDE164(Vol 2)
1-OCTANOL87(Vol 3)	PROPIONITRILE
2-OCTANOL	n-PROPYL ACETATE
	n-PROPYL ACRYLATE
2-OCTANONE	
1-OCTENE	n-PROPYL n-BUTYRATE
trans-2-OCTENE53(Vol 3)	n-PROPYL CHLORIDE
trans-3-OCTENE54(Vol 3)	n-PROPYL FORMATE279(Vol 1)
trans-4-OCTENE55(Vol 3)	n-PROPYL IODIDE182(Vol 1)
n-OCTYL FORMATE139(Vol 3)	n-PROPYL METHACRYLATE313(Vol 2)
n-OCTYL MERCAPTAN95(Vol 3)	n-PROPYL PROPIONATE205(Vol 2)
t-OCTYL MERCAPTAN96(Vol 3)	n-PROPYLAMINE200(Vol 1)
n-OCTYLAMINE99(Vol 3)	n-PROPYLBENZENE123(Vol 3)
n-OCTYLBENZENE293(Vol 3)	n-PROPYLCYCLOHEXANE
p-tert-OCTYLPHENOL294(Vol 3)	n-PROPYLCYCLOPENTANE
OLEIC ACID	PROPYLENE
OXALIC ACID80(Vol 1)	1,2-PROPYLENE GLYCOL
OXAZOLE	1,3-PROPYLENE GLYCOL196(Vol 1)
PARALDEHYDE212(Vol 2)	1,3-PROPYLENE OXIDE
PENTACHLOROETHANE	1,2-PROPYLENE OXIDE
n-PENTADECANE308(Vol 3)	PROPYLENEIMINE
PENTADECANOIC ACID307(Vol 3)	n-PROPYLMERCAPTAN198(Vol 1)
1-PENTADECENE306(Vol 3)	PYRENE310(Vol 3)
1,2-PENTADIENE	PYRIDINE
1,4-PENTADIENE21(Vol 2)	PYROMELLITIC ACID
2,3-PENTADIENE22(Vol 2)	PYRROLE227(Vol 1)
cis-1,3-PENTADIENE19(Vol 2)	PYRROLIDINE287(Vol 1)
trans-1,3-PENTADIENE20(Vol 2)	2-PYRROLIDONE
PENTAERYTHRITOL	PYRUVIC ACID
PENTAERYTHRITOL TETRANITRATE25(Vol 2)	QUINALDINE164(Vol 3)
PENTAFLUOROETHANE	QUINOLINE
n-PENTANE72(Vol 2)	SALICYLALDEHYDE283(Vol 2)
1,5-PENTANEDIOL	SALICYLIC ACID
1-PENTANOL	SEBACIC ACID
2-PENTANOL79(Vol 2)	SORBITOL241(Vol 2)
3-PENTANOL80(Vol 2)	STEARIC ACID
2-PENTANONE	cis-STILBENE286(Vol 3)
1-PENTENE	trans-STILBENE287(Vol 3)
cis-2-PENTENE46(Vol 2)	STYRENE8(Vol 3)
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SUCCINIC ACID250(Vol 1)	1,1,1-TRIFLUOROETHANE91(Vol 1)
SUCCINIC ANHYDRIDE219(Vol 1)	TRIFLUOROMETHANE
SUCCINONITRILE216(Vol 1)	TRIMELLITIC ANHYDRIDE102(Vol 3)
SULFOLANE	TRIMETHYL PHOSPHATE206(Vol 1)
	TRIMETHIC PROGRAME
TARTARIC ACID253(Vol 1)	TRIMETHYL SILANE
TEREPHTHALIC ACID	TRIMETHYLAMINE202(Vol 1)
m-TERPHENYL	1,2,3-TRIMETHYLBENZENE124(Vol 3)
o-TERPHENYL327(Vol 3)	1,2,4-TRIMETHYLBENZENE125(Vol 3)
p-TERPHENYL328(Vol 3)	2,2,3-TRIMETHYLBUTANE
alpha-TERPINENE202(Vol 3)	2,3,3-TRIMETHYL-1-BUTENE333(Vol 2)
gamma-TERPINENE203(Vol 3)	2,2,5-TRIMETHYLHEXANE
TERPINOLENE	1,2,3-TRIMETHYLINDENE252(Vol 3)
1,1,2,2-TETRABROMOETHANE67(Vol 1)	TRIMETHYLOLPROPANE
	2,2,3-TRIMETHYLPENTANE
1,1,2,2-TETRACHLORODIFLUOROETHANE53(Vol 1)	
1,1,1,2-TETRACHLOROETHANE75(Vol 1)	2,2,4-TRIMETHYLPENTANE80(Vol 3)
1,1,2,2-TETRACHLOROETHANE	2,3,3-TRIMETHYLPENTANE81(Vol 3)
TETRACHLOROETHYLENE52(Vol 1)	2,3,4-TRIMETHYLPENTANE82(Vol 3)
TETRACHLOROTHIOPHENE209(Vol 1)	2,4,4-TRIMETHYL-1-PENTENE57(Vol 3)
n-TETRADECANE297(Vol 3)	2,4,4-TRIMETHYL-2-PENTENE58(Vol 3)
n-TETRADECANOIC ACID296(Vol 3)	2,4,6-TRIMETHYLPYRIDINE33(Vol 3)
1-TETRADECANOL	1,3,5-TRINITROBENZENE
1-TETRADECENE	2,4,6-TRINITROTOLUENE272(Vol 2)
TETRADECYLAMINE	TRIPHENYL PHOSPHATE330(Vol 3)
TETRAETHYLENE GLYCOL	TRIPHENYLETHYLENE
TETRAETHYLENE GLYCOL DIMETHYL ETHER.224(Vol 3)	TRIPHENYLPHOSPHINE329(Vol 3)
TETRAETHYLENEPENTAMINE100(Vol 3)	TRIOXANE176(Vol 1)
1,1,1,2-TETRAFLUOROETHANE78(Vol 1)	TRIPROPYLAMINE
TETRAFLUOROETHYLENE56(Vol 1)	1-UNDECANAL234(Vol 3)
TETRAHYDROFURAN271(Vol 1)	n-UNDECANE
TETRAHYDROFURFURYL ALCOHOL62(Vol 2)	1-UNDECANOL
1,2,3,4-TETRAHYDRONAPHTHALENE171(Vol 3)	1-UNDECENE233(Vol 3)
TETRAHYDROTHIOPHENE281(Vol 1)	UNDECYL MERCAPTAN
1,2,3,5-TETRAMETHYLBENZENE190(Vol 3)	n-UNDECYLBENZENE
1,2,4,5-TETRAMETHYLBENZENE191(Vol 3)	VALERALDEHYDE
2,2,3,3-TETRAMETHYLPENTANE150(Vol 3)	VALERIC ACID61(Vol 2)
2,2,3,4-TETRAMETHYLPENTANE151(Vol 3)	VALERONITRILE
2,2,4,4-TETRAMETHYLPENTANE152(Vol 3)	VANILLIN
TETRAMETHYLSILANE322(Vol 1)	VINYL ACETATE248(Vol 1)
TETRANITROMETHANE41(Vol 1)	VINYL BROMIDE81(Vol 1)
TETRAPHENYLETHYLENE362(Vol 3)	VINYL CHLORIDE82(Vol 1)
THIOPHENE	VINYL FLUORIDE
p-TOLUALDEHYDE10(Vol 3)	VINYL FORMATE145(Vol 1)
	VINYL PROPIONATE
TOLUENE	VINIL PROPIONALE
TOLUENE DIISOCYANATE103(Vol 3)	VINYLACETONITRILE228(Vol 1)
TOLUENEDIAMINE309(Vol 2)	VINYLACETYLENE215(Vol_1)
o-TOLUIC ACID12(Vol 3)	VINYLCYCLOHEXENE
p-TOLUIC ACID	m-XYLENE18(Vol 3)
m-TOLUIDINE	o-XYLENE19(Vol 3)
o-TOLUIDINE306(Vol 2)	p-XYLENE20(Vol 3)
p-TOLUIDINE307(Vol 2)	2,3-XYLENOL25(Vol 3)
TRIBROMOMETHANE13(Vol 1)	2,4-XYLENOL
TRI-n-BUTYL BORATE269(Vol 3)	2,5-XYLENOL
TRI-n-BUTYLAMINE	2,6-XYLENOL
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TRICHLOROACETALDEHYDE62(Vol 1)	3,4-XYLENOL29(Vol 3)
TRICHLOROACETYL CHLORIDE54(Vol 1)	3,5-XYLENOL30(Vol 3)
1,2,4-TRICHLOROBENZENE	
1,1,1-TRICHLOROETHANE88(Vol 1)	
1,1,2-TRICHLOROETHANE89(Vol 1)	
TRICHLOROETHYLENE60(Vol 1)	
1,1,1-TRICHLOROFLUOROETHANE74(Vol 1)	
TRICHLOROFLUOROMETHANE9(Vol 1)	
1,2,3-TRICHLOROPROPANE153(Vol 1)	
1,1,2-TRICHLOROTRIFLUOROETHANE51(Vol 1)	
TRI-o-CRESYL PHOSPHATE	
1-TRIDECANAL	
1-TRIDECANOL	
1-TRIDECENE	
n-TRIDECYLBENZENE345(Vol 3)	
TRIETHANOLAMINE251(Vol 2)	
TRIETHYL ALUMINUM243(Vol 2)	
TRIETHYL PHOSPHATE253(Vol 2)	
TRIETHYLAMINE248(Vol 2)	
TRIETHYLENE GLYCOL240(Vol 2)	
TRIETHYLENE GLYCOL DIMETHYL ETHER93(Vol 3)	
TRIETHYLENE TETRAMINE	
TRIETHYLENEDIAMINE190(Vol 2)	
TRIFLUOROACETIC ACID64(Vol 1)	

Appendix H

Computer Program for Thermodynamic Properties

A computer program for calculation of thermodynamic properties using the Peng-Robinson equation of state is available for a nominal fee (Carl L. Yaws, Box 10053, Lamar University, Beaumont, TX 77710, phone/FAX 409-880-8787). The computer program is executable and complete with data files. The program calculates thermodynamic properties at pressures and temperatures that are input by the user. Representative results are shown below:

COMPOUND: 841 C8H18 n-OCTANE

reference state: datum of ideal gas @ 77 F (25 C)

P	T	Z	V	Н	S
psia	F		ft^3/lb	BTU/lb	BTU/lb F
500.0	0.00	0.266	0.023	-188.42	-0.292
500.0	100.00	0.228	0.024	-139.01	-0.195
500.0	200.00	0.204	0.025	-83.69	-0.104
500.0	300.00	0.192	0.027	-22.19	-0.018
500.0	400.00	0.190	0.031	46.12	0.067
500.0	500.00	0.206	0.037	123.11	0.151
500.0	1000.00	0.892	0.245	566.92	0.527
3000.0	0.00	1.573	0.023	-179.50	-0.296
3000.0	100.00	1.336	0.023	-130.64	-0.200
3000.0	200.00	1.181	0.024	-76.27	-0.111
3000.0	300.00	1.077	0.026	-16.44	-0.026
3000.0	400.00	1.011	0.027	48.72	0.054
3000.0	500.00	0.974	0.029	118.99	0.131
3000.0	1000.00	1.051	0.048	530.51	0.474
10000.0	0.00	5.132	0.022	-153.76	-0.303
10000.0	100.00	4.306	0.023	-105.62	-0.208
10000.0	200.00	3.741	0.023	-52.27	-0.121
10000.0	300.00	3.336	0.024	6.18	-0.038
10000.0	400.00	3.034	0.025	69.52	0.040
10000.0	500.00	2.804	0.025	137.49	0.115